

Rio Blanco Oil Shale Project

PROGRESS REPORT 10

GEOTECHNICAL DATA GATHERING PROJECT

HYDROLOGIC PROGRAM

SECTION 1.2

APPENDIX 3

Volume 3

To Area Oil Shale Supervisor
United States Geological Survey

by
Wright Water Engineers
for
Gulf Oil Corporation
and
Standard Oil Company (Indiana)

88064969

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No. 10
Sect 1.2
Map 3
Vol. 3

INDIVIDUAL MONITORING HOLE SUMMARIES
BY AQUIFER AND METHOD

H20QASA-2

CORE-HOLE AM-2A
NUMBER OF

ANALYSES

AQUIFER C METHOD 1

REPORT DATE 03/10/77

PAGE 2

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

00003# SAMPLE DEPTH, FEET

1 1983.00 1983.00

00011# TEMPERATURE, WATER
(DEG. F)

1 43.16 43.16

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 2959.99 2959.99

00400# PH (STANDARD UNITS)

1 8.40 8.40

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 31.00 31.00

00440 BICARBONATE ION
(MG/L AS HCO3)

1 863.00 863.00

00445 CARBONATE ION (MG/L
AS CO3)

1 36.00 36.00

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

1 1382.00 1382.00

C0900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1 322.00 322.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1 24.00 24.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1 64.00 64.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1 277.00 277.00

00940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1 62.00 62.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1 40.00 40.00

C0950 FLUORIDE, TOTAL
(MG/L AS F)

1 10.00 10.00

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 22.00 22.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1 <50.00 <50.00

H2OQASA-2 CORE-HOLE AM-2A NUMBER OF ANALYSES 1 REPORT DATE 03/10/77 PAGE 3

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01056 MANGANESE, DISSOLVED (UG/L AS MN) 1 <50.00 <50.00
71851 NITROGEN, NITRATE DISS (MG/L AS NO3) 1 0.10 0.10

END OF CORE-HOLE AM-2A WET SAMPLES REPORTING PERIOD IS 09/27/73 THRU 09/27/73

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE AM-2A
NUMBER
OF

ANALYSES

AQUIFER L METHOD 2

REPORT DATE 03/10/77

PAGE 5

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

00011# TEMPERATURE, WATER
(DEG. F)

1

45.14

45.14

00095 CCNDUCTIVITY (UMHQS
AT 25 DEG C)

1

2599.99

2599.99

00400# PH (STANDARD UNITS)

1

7.90

7.90

00410 ALKALINITY, TOTAL
(MG/L AS CaCO_3)

1

0.10

0.10

00440 BICARBONATE ION
(MG/L AS HCO_3)

1

1980.00

1980.00

00445 CARBONATE ION (MG/L
AS CO_3)

1

<0.10

<0.10

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M

1

2750.00

2750.00

00900 HARDNESS, TOTAL
(MG/L AS CaCO_3)

1

165.00

165.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1

28.00

28.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1

23.00

23.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1

1090.00

1090.00

00940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1

148.00

148.00

00945 SULFATE, DISSOLVED
(MG/L AS SO_4)

1

145.00

145.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1

41.00

41.00

00955 SILICA, DISSOLVED
(MG/L AS SiO_2)

1

18.00

18.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1

250.00

250.00

01050 MANGANESE, DISSOLVED
(UG/L AS Mn)

1

90.00

90.00

H20QASA-2 CORE-HOLE AM-2A AQUIFER L METHOD 2
 NUMBER OF ANALYSES
 PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 WET SAMPLES
 95% CONFIDENCE
 LIMITS ON MEAN
 UPPER LOWER
 THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 25% 50% 75% 90% 95%

70507	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	1	<0.10	<0.10					
71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	1	2.40	2.40					
END OF CORE-HOLE AM-2A AQUIFER L METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/04/73 THRU 11/04/73									

* -- ESTIMATE USING METHOD OF MOMENTS
 # -- NC LCG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE
 THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED

STANDARD
 DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

UPPER

LOWER

25%

50%

75%

90%

95%

00003#	SAMPLE DEPTH, FEET	4	647.49	632.78	639.11	6.60	648.27	629.94	634.65	639.11	643.56	647.57	649.97
00011#	TEMPERATURE, WATER (DEG. F)	4	65.30	57.70	62.00	3.39	66.70	57.30	59.72	62.00	64.28	66.34	67.57
00915	CALCIUM, DISSOLVED (MG/L AS CA)	3	99999.00	99999.00									
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	3	99999.00	99999.00									
00930*	SODIUM, DISSOLVED (MG/L AS NA)	3	99999.00	5.00	7.07	1.63	31.42	1.59	5.08	7.07	9.84	13.25	15.84
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	3	1.00	0.10	0.22	3.78	2.48	0.02	0.09	0.22	0.53	1.18	1.92
00955*	SILICA, DISSOLVED (MG/L AS SIO2)	3	5.00	2.00	2.71	1.70	7.17	1.03	1.90	2.71	3.88	5.35	6.48
01006*	ALUMINIUM (UG/L)	3	50.00	10.00	17.10	2.53	94.27	3.10	9.13	17.10	32.02	56.28	78.86
01020*	BORON, DISSOLVED (UG/L AS B)	3	500.00	200.00	271.44	1.70	717.37	102.71	189.93	271.44	387.93	534.82	648.04
01040*	COPPER, DISSOLVED (UG/L AS CU)	3	5.00	1.00	2.92	2.53	16.12	0.53	1.56	2.92	5.47	9.62	13.48
01046*	IRON, DISSOLVED (UG/L AS FE)	3	100.00	10.00	27.14	3.26	237.78	3.10	12.23	27.14	60.25	123.42	189.50
01049	LEAD, DISSOLVED (UG/L AS PB)	1	10.00	10.00									
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	3	10.00	1.00	3.68	3.26	32.27	0.42	1.66	3.68	8.18	16.75	25.72
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	20.00	20.00									
01075	SILVER, DISSOLVED (UG/L AS AG)	1	0.10	0.10									
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	3	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	1.00	1.00									

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES				
						95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	UPPER	LOWER	
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49
01150 TITANIUM, DISSOLVED (UG/L AS TI)	1	1.00	1.00							25.50
09503 RADIUM (UG/L)	1	500.00	500.00							46.05

END OF CORE-HOLE AM-2A AWIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/13/75 THRU 11/11/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE AM-2A
NUMBER
CF

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	4	647.49	632.78	639.11	6.60	648.27	629.94	634.65	639.11	643.50	647.57	649.97
00011#	TEMPERATURE, WATER (DEG. F)	4	65.30	57.70	62.00	3.39	66.70	57.30	59.72	62.00	64.28	66.34	67.57
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	4	3299.99	1340.00	2225.36	1.49	3863.56	1281.78	1701.71	2225.36	2910.14	3704.17	4279.06
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	50.00	45.00	47.43	1.08	59.50	37.81	45.11	47.43	49.88	52.19	53.62
00400#	PH (STANDARD UNITS)	4	8.00	6.80	7.40	0.52	8.12	6.68	7.05	7.40	7.75	8.06	8.25
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	4	2269.99	419.00	1140.14	2.15	3302.58	393.60	679.72	1140.14	1912.41	3044.94	4021.41
00440*	BICARBONATE ION (MG/L AS HCO3)	4	2779.99	445.00	1272.59	2.31	4072.03	397.71	722.84	1272.59	2240.45	3725.93	5050.55
00445*	CARBONATE ION (MG/L AS CO3)	4	98.00	<0.10	15.27	28.68	1610.07	0.14	1.58	15.27	147.10	1128.09	3814.50
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	4	2849.99	735.00	1601.11	1.83	3697.62	693.30	1065.73	1601.11	2405.44	3468.66	4317.45
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	2.40	2.40									
00613*	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	2	0.30	<0.02	0.08	6.79	26.27	0.00	0.02	0.08	0.28	0.90	1.81
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	4	24.00	13.00	19.42	1.34	29.02	13.00	15.98	19.42	23.61	28.14	31.26
00720*	CYANIDE (MG/L AS CN)	4	0.02	<0.01	0.01	1.41	0.02	0.01	0.01	0.01	0.02	0.02	0.02
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	0.60	0.20	0.35	2.17	3.68	0.03	0.21	0.35	0.59	0.94	1.24
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	3	190.00	80.00	111.83	1.59	262.44	47.65	81.74	111.83	152.99	202.81	240.04
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	4	6.60	3.30	4.37	1.34	6.57	2.91	3.59	4.37	5.33	6.37	7.08
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	4	42.00	17.00	27.14	1.57	50.91	14.47	19.99	27.14	36.85	48.52	57.19

H20QASA-2

CORE-HOLE AM-2A

AQUIFER L METHOD 3

REPORT DATE 03/10/77

PAGE 10

10

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

NUMBER

PARAMETER DESCRIPTION

C0930*	SODIUM, DISSOLVED (MG/L AS NA)	4	1170.00	220.00	595.81	2.16	1737.48	204.32	354.05	595.81	1002.66	1601.11	2118.27
C0935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	11.00	2.20	4.92	3.12	156.94	0.15	2.28	4.92	10.61	21.16	31.99
C0940*	CHLORIDE, DISSOLVED (MG/L AS CL)	4	125.00	34.00	60.85	1.79	136.76	27.07	41.04	60.85	90.21	128.55	158.88
C0945*	SULFATE, DISSOLVED (MG/L AS SC4)	4	185.00	75.00	134.55	1.51	238.74	75.83	101.81	134.55	177.83	228.51	265.49
C0950*	FLUORIDE, TOTAL (MG/L AS F)	4	50.00	3.90	15.39	2.85	65.99	3.59	7.58	15.39	31.24	59.05	86.40
C0955*	SILICA, DISSOLVED (MG/L AS SI02)	4	14.00	3.20	6.84	1.91	16.86	2.78	4.41	6.84	10.61	15.73	19.92
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	4	<10.00	<10.00	<10.00	1.00							
C1005*	BARIUM, DISSOLVED (UG/L AS BA)	2	<1000.00	<1000.00	<1000.00	1.00							
C1020*	BORON, DISSOLVED (UG/L AS B)	4	4799.98	50.00	969.42	7.60	16193.94	58.03	246.51	969.42	3812.36	13060.68	27275.45
C1025*	CADMIUM, DISSOLVED (UG/L AS CD)	4	<10.00	<10.00	<10.00	1.00							
C1030*	CHROMIUM, DISSOLVED (UG/L AS CR)	4	<10.00	<10.00	<10.00	1.00							
C1040*	COPPER, DISSOLVED (UG/L AS CU)	4	<100.00	<100.00	<100.00	1.00							
C1046*	IRON, DISSOLVED (UG/L AS FE)	4	2959.99	<50.00	452.70	8.69	9108.44	22.50	105.16	452.70	1948.87	7242.47	15879.02
C1049*	LEAD, DISSOLVED (UG/L AS PB)	4	2799.99	<10.00	240.76	10.82	6559.77	8.94	48.26	240.76	1201.13	5096.55	12096.15
C1056*	MANGANESE, DISSOLVED (UG/L AS MN)	4	90.00	50.00	65.14	1.36	100.04	42.41	52.87	65.14	80.25	96.81	108.31
C1060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
C1065*	NICKEL, DISSOLVED (UG/L AS NI)	2	20.00	20.00	20.00	1.00	20.10	19.90	19.98	20.00	20.02	20.04	20.05

H200ASA-2

CORE-HOLE AM-2A
NUMBER
OF

AQUIFER 1 METHOD 3A

REPORT DATE 03/10/77

PAGE

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

95%

90%

75%

50%

LOWER

UPPER

641.55

616.46

622.90

629.00

635.10

640.59

643.87

61.15

57.85

58.70

59.50

60.30

61.03

61.46

61.88

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95%

 * -- ESTIMATE USING METHOD OF MOMENTS
 # -- NC LCG TRANSFORM
 VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H2O-ASA-2		CORE-HOLE AM-2A NUMBER CF	AQUIFER L METHOD 3A		REPORT DATE 03/10/77									PAGE 14
PARAMETER DESCRIPTION ANALYSES			MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 55% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
							UPPER	LOWER	25%	50%	75%	90%	95%	
00003#	SAMPLE DEPTH, FEET		4	636.80	615.97	629.00	9.04	641.55	616.46	622.90	629.00	635.10	640.59	643.87
00011#	TEMPERATURE, WATER (DEG. F)		4	60.80	58.10	59.50	1.19	61.15	57.85	58.70	59.50	60.30	61.03	61.46
00095#	CONDUCTIVITY (UMHOS AT 25 DEG C)		4	1370.00	1260.00	1334.22	1.04	1408.67	1263.71	1299.45	1334.22	1369.92	1402.84	1422.90
CC400#	PH (STANDARD UNITS)		4	7.40	6.10	6.97	0.60	7.80	6.15	6.57	6.97	7.38	7.74	7.96
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)		4	405.00	344.90	373.68	1.08	414.77	336.66	355.19	373.68	393.12	411.48	422.86
00440#	BICARBONATE ION (MG/L AS HCO3)		4	455.00	380.00	411.60	1.08	457.31	370.46	391.05	411.60	433.23	453.65	466.32
00445#	CARBONATE ION (MG/L AS CO3)		4	75.00	36.00	55.12	1.36	84.53	35.95	44.78	55.12	67.86	81.82	91.50
00540#	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)		4	935.00	850.00	888.06	1.05	945.36	834.23	861.46	888.06	915.48	940.85	956.36
00681#	CARBON, ORGANIC; DISS (MG/L AS C)		3	9.00	6.00	7.23	1.23	10.53	4.96	6.30	7.23	8.30	9.40	10.12
00720#	CYANIDE (MG/L AS CN)		4	<0.01	<0.01	<0.01	1.00							
00900#	HARDNESS, TOTAL (MG/L AS CaCO3)		4	310.00	230.00	272.07	1.14	325.46	227.44	249.37	272.07	296.84	321.04	336.44
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)		4	36.00	16.00	21.34	1.43	35.19	12.94	16.73	21.34	27.22	33.87	38.60
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)		4	66.00	46.00	55.27	1.16	68.25	44.76	49.88	55.27	61.24	67.16	70.97
00930#	SODIUM, DISSOLVED (MG/L AS Na)		4	245.00	210.00	223.27	1.08	247.82	201.15	212.23	223.27	234.89	245.86	252.66
00940#	CHLORIDE, DISSOLVED (MG/L AS Cl)		4	41.00	2.80	11.53	3.01	53.33	2.49	5.48	11.53	24.28	47.45	70.82
00945#	SULFATE, DISSOLVED (MG/L AS SO4)		4	330.00	270.00	305.37	1.09	345.05	270.26	287.76	305.37	324.06	341.85	352.94
00950#	FLUORIDE, TOTAL (MG/L AS F)		4	1.10	<0.05	0.43	4.25	3.23	0.06	0.16	0.43	1.15	2.77	4.68

H20QASA-2		CCRE-HOLE AM-2A		AQUIFER L METHOD 3A		REPORT DATE 03/10/77				PAGE 15	
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION	
OF											

UPPER	25%	50%	75%	90%
LIMITS ON MEAN				
95% CONFIDENCE				
SPECTROGRAPHIC SAMPLES				
THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				

STANDARD
DEVIATION

LOWER

258

50%

758

306

255

3

CC003# SAMPLE DEPTH, FEET

000114 TEMPERATURE, WATER

(DEG. F)

00935* POTASSIUM, DISSOLVED

(MG/L AS K)

00925* SILICA, DISSOLVED

(MG/L AS SI02)

01006* ALUMINIUM (UG/L)

[illegible]

01020* BORCN, DISSOLVED

(UG/L AS B)

01046* IRCN. DISSOLVED

(UG/L AS FE)

01000+ MCLYBENTIM. DISS

(UG/L AS NO)

01080* STRONTIUM. DISSOLVED

(US 7/2N)
(UG/L AS SK)

01130# IYTHIM. DISSOLVED

(UG/L AS LI)

END OF CORE-HOLE AM-24 ACQUIRED BY METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 09/19/73 THRU 09/23/73

* -- ESTIMATE USING METHOD OF MOMENTS

--- ESTIMATE USING ME
--- NC LOG TRANSFORM

VALUES OF "C555.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
						UPPER	LOWER	25%	50%	75%	90%	95%	
C0003# SAMPLE DEPTH, FEET	2	1446.00	896.00	1171.00	388.91	2354.32	-12.32	908.49	1171.00	1433.51	1669.58	1810.75	
00011# TEMPERATURE, WATER (DEG. F)	2	43.70	42.58	43.34	0.51	44.89	41.79	43.00	43.34	43.68	43.99	44.18	
00095# CONDUCTIVITY (UMHRS AT 25 DEG C)	2	2280.00	1320.00	1734.82	1.47	5622.29	535.29	1336.49	1734.82	2251.85	2847.17	3275.95	
00400# PH (STANDARD UNITS)	2	8.40	8.40	8.40	0.01	8.43	8.37	8.39	8.40	8.41	8.41	8.42	
C0410# ALKALINITY, TOTAL (MG/L AS CaCO3)	2	36.00	31.00	33.41	1.11	46.08	24.22	31.11	33.41	35.68	38.25	39.75	
00440# BICARBONATE ION (MG/L AS HCO3)	2	1220.00	518.00	794.96	1.83	5019.91	125.89	528.19	794.96	1196.46	1728.08	2153.01	
00445# CARBONATE ION (MG/L AS CO3)	2	42.00	36.00	38.88	1.12	54.17	27.91	36.13	38.88	41.85	44.71	46.52	
00540# DISSOLVED SOLIDS (POE AT 178 DEG C, M)	2	1586.00	984.00	1249.25	1.40	3488.43	447.37	994.74	1249.25	1568.87	1925.56	2176.53	
C0900# HARDNESS, TOTAL (MG/L AS CaCO3)	2	312.00	212.00	257.18	1.31	590.52	112.01	213.87	257.18	309.26	365.04	403.10	
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	2	29.00	21.00	24.68	1.26	49.42	12.32	21.15	24.68	28.79	33.07	35.92	
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	85.00	39.00	57.58	1.73	307.75	10.77	39.70	57.58	83.51	116.67	142.50	
00930# SODIUM, DISSOLVED (MG/L AS Na)	2	463.00	77.00	188.81	3.56	8958.68	3.98	80.20	188.81	444.52	960.03	1521.47	
00940# CHLORIDE, DISSOLVED (MG/L AS Cl)	2	69.00	24.00	40.65	2.11	394.72	4.20	24.58	40.69	67.37	106.00	139.00	
00945# SULFATE, DISSOLVED (MG/L AS SO4)	2	38.00	30.00	33.76	1.18	56.14	20.30	30.16	33.76	37.60	41.83	44.45	
C0950# FLUORIDE, TOTAL (MG/L AS F)	2	24.00	0.10	1.55	48.20	4702.31	0.00	0.11	1.55	21.19	222.74	909.37	
00955# SILICA, DISSOLVED (MG/L AS SiO2)	2	24.00	17.00	20.20	1.28	42.42	9.62	17.13	20.20	23.81	27.61	30.17	
01046# IRON, DISSOLVED (UG/L AS Fe)	2	<50.00	<50.00	<50.00	1.00								

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
 DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER
 OF

PARAMETER DESCRIPTION

00011# TEMPERATURE, WATER
 (DEC. F)

1 43.34 43.34

00935 POTASSIUM, DISSOLVED
 (MG/L AS K)

1 0.10 0.10

00955 SILICA, DISSOLVED
 (MG/L AS SI02)

1 20.00 20.00

01006 ALUMINIUM (UG/L)

1 10.00 10.00

01020 BORON, DISSOLVED
 (UG/L AS B)

1 100.00 100.00

01046 IRON, DISSOLVED
 (UG/L AS FE)

1 20.00 20.00

01090 STRONTIUM, DISSOLVED
 (UG/L AS SR)

1 500.00 500.00

END OF CORE-HOLE AM-2A AQUIFER U METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/06/73 THRU 11/06/73

* -- ESTIMATE USING METHOD OF PCMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

	MEAN	STANDARD DEVIATION
1. <i>How much time do you spend on the Internet each week?</i>	1.71	0.71
2. <i>How much time do you spend on the Internet each day?</i>	1.14	0.54
3. <i>How much time do you spend on the Internet each month?</i>	1.14	0.54
4. <i>How much time do you spend on the Internet each year?</i>	1.14	0.54
5. <i>How much time do you spend on the Internet each week?</i>	1.71	0.71
6. <i>How much time do you spend on the Internet each day?</i>	1.14	0.54
7. <i>How much time do you spend on the Internet each month?</i>	1.14	0.54
8. <i>How much time do you spend on the Internet each year?</i>	1.14	0.54
9. <i>How much time do you spend on the Internet each week?</i>	1.71	0.71
10. <i>How much time do you spend on the Internet each day?</i>	1.14	0.54
11. <i>How much time do you spend on the Internet each month?</i>	1.14	0.54
12. <i>How much time do you spend on the Internet each year?</i>	1.14	0.54

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM
00011#	TEMPERATURE, WATER (DEG. F)	1	43.34	43.34
00035	CONDUCTIVITY (UMHOS AT 25 DEG C)	1	1610.00	1610.00
00400#	PH (STANDARD UNITS)	1	7.90	7.90
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	1	19.00	19.00
00440	BICARBONATE ION (MG/L AS HCO3)	1	512.00	512.00
00445	CARBONATE ION (MG/L AS CO3)	1	24.00	24.00
00540	DISSOLVED SOLIDS (FGE AT 178 DEG C, M)	1	1000.00	1000.00
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	1	320.00	320.00
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	1	74.00	74.00
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	1	33.00	33.00
00930	SODIUM, DISSOLVED (MG/L AS Na)	1	350.00	390.00
00940	CHLORIDE, DISSOLVED (MG/L AS Cl)	1	29.00	29.00
00945	SULFATE, DISSOLVED (MG/L AS SO4)	1	352.00	352.00
00950	FLUORIDE, TOTAL (MG/L AS F)	1	80.00	80.00
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	29.00	29.00
01046	IRON, DISSOLVED (UG/L AS Fe)	1	<50.00	<50.00
01056	MANGANESE, DISSOLVED (UG/L AS Mn)	1	<50.00	<50.00

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WET SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS

Year	25%	50%	75%	90%	95%
1990	25%	50%	75%	90%	95%

711851	NITROGEN, NITRATE OISS (MG/L AS NO3)	1	1.30	1.30
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END OF CORE-HOLE AM-2A AQUIFER U METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/06/73 THRU 11/06/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "95995.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2

CORE-HOLE AM-2A
NUMBER OF ANALYSES

AQUIFER U METHOD 3

REPORT DATE 03/10/77

PAGE 23

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

90%

75%

50%

25%

LOWER

UPPER

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

00011# TEMPERATURE, WATER
(DEG. F)00915 CALCIUM, DISSOLVED
(MG/L AS CA)00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)00930# SODIUM, DISSOLVED
(MG/L AS NA)00935# POTASSIUM, DISSOLVED
(MG/L AS K)00955# SILICA, DISSOLVED
(MG/L AS SiO2)

01006# ALUMINIUM (UG/L)

01020# BORON, DISSOLVED
(UG/L AS B)01040# COPPER, DISSOLVED
(UG/L AS CU)01046# IRON, DISSOLVED
(UG/L AS FE)01049# LEAD, DISSOLVED
(UG/L AS PB)01056# MANGANESE, DISSOLVED
(UG/L AS MN)01060# MOLYBDENUM, DISS
(UG/L AS MO)01065 NICKEL, DISSOLVED
(UG/L AS NI)01080# STRONTIUM, DISSOLVED
(UG/L AS SR)01090# ZINC, DISSOLVED
(UG/L AS ZN)

6 404.29 378.20

6 57.60 49.10

5 99999.00 99999.00

5 99999.00 10.00

5 10.00 10.00

5 2.00 0.10

5 5.00 2.00

5 100.00 1.00

5 500.00 200.00

5 10.00 1.00

5 500.00 10.00

2 50.00 1.00

4 20.00 1.00

3 50.00 1.00

1 1.00 1.00

5 100.00 100.00

2 1.00 1.00

10.26

2.89

9.99

10.02

1.00

3.15

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15.90

4.24

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382.40

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50.72

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15.52

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95%

01130* LITHIUM, DISSOLVED (UG/L AS LI) 4 10.00 1.00 3.16 3.78 20.02 0.50 1.29 3.16 7.76 17.38 28.17

01150* TITANIUM, DISSOLVED (UG/L AS TI) 3 10.00 1.00 2.15 3.78 24.77 0.19 0.88 2.15 5.28 11.84 19.19

END OF CORE-HOLE AM-2A ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 04/27/75 THRU 11/11/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE AM-2A
NUMBER
CF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

00003*	SAMPLE DEPTH, FEET	6	404.29	378.20	392.65	10.26	402.90	382.40	385.73	392.65	399.58	405.81	409.53
00011*	TEMPERATURE, WATER (DEG. F)	6	57.60	49.10	53.60	2.89	56.48	50.72	51.65	53.60	55.55	57.30	58.35
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	6	1550.00	1180.00	1377.67	1.10	1521.82	1247.16	1288.07	1377.67	1473.49	1565.34	1622.98
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	135.00	32.00	65.73	2.77	1454.85	2.97	33.06	65.73	130.66	242.37	350.71
00400*	PH (STANDARD UNITS)	6	7.10	6.60	6.88	0.22	7.11	6.66	6.73	6.88	7.03	7.17	7.25
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	6	590.00	374.00	469.22	1.21	567.57	387.91	412.61	469.22	533.60	599.01	641.90
00440*	BICARBONATE ION (MG/L AS HCO3)	6	720.00	410.00	540.97	1.26	683.99	427.85	461.67	540.97	633.89	731.00	796.04
00445*	CARBONATE ION (MG/L AS CO3)	6	66.00	<0.10	2.08	28.04	58.05	0.07	0.22	2.08	19.71	149.11	500.05
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	6	1160.00	890.00	1018.70	1.11	1130.54	917.93	949.47	1018.70	1092.99	1164.40	1209.32
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.70	0.70									
00613*	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	2	0.40	<0.02	0.09	8.32	56.33	0.00	0.02	0.09	0.37	1.35	2.92
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	6	14.00	5.00	8.61	1.47	12.70	5.84	6.62	8.61	11.19	14.17	16.32
00720*	CYANIDE (MG/L AS CN)	6	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	0.60	0.20	0.35	2.17	3.68	0.03	0.21	0.35	0.59	0.94	1.24
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	5	365.00	280.00	331.00	1.13	381.59	287.13	304.49	331.00	359.83	387.88	405.69
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	6	83.00	28.00	40.77	1.50	61.17	27.18	31.00	40.77	53.63	68.62	79.52
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	6	70.00	38.00	56.60	1.26	71.52	44.79	48.32	56.60	66.29	76.42	83.20

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H2OQASA-2		CORE-HOLE AM-2A	AQUIFER U METHOD	3	REPORT DATE 03/10/77		PAGE		26
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
		NUMBER OF					UPPER	LOWER	25% 50% 75% 90% 95%
CC930*	SODIUM, DISSOLVED (MG/L AS NA)	6	330.00	200.00	252.62	1.19	300.17	212.60	224.83 252.62 283.84 315.20 335.59
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	4.50	1.20	2.32	2.55	39.92	0.14	1.24 2.32 4.37 7.70 10.81
00940*	CHLORIDE, DISSOLVED (MG/L AS CL)	6	55.00	5.60	10.96	2.34	25.58	4.70	6.18 10.96 19.43 32.52 44.25
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	6	410.00	290.00	347.35	1.12	388.58	310.48	321.99 347.35 374.70 401.13 417.82
00950*	FLUORIDE, TOTAL (MG/L AS F)	6	2.50	0.20	0.69	2.54	1.75	0.27	0.37 0.69 1.30 2.28 3.20
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	6	29.00	15.00	21.18	1.26	26.77	16.76	18.08 21.18 24.81 28.61 31.15
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	6	<10.00	<10.00	<10.00	1.00			
01005*	BARIUM, DISSOLVED (UG/L AS BA)	4	<1000.00	<1000.00	<1000.00	1.00			
01020*	BORON, DISSOLVED (UG/L AS B)	6	2159.95	40.00	267.85	4.23	1132.64	63.36	101.13 267.89 709.62 1704.03 2877.37
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	6	<10.00	<10.00	<10.00	1.00			
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	6	<10.00	<10.00	<10.00	1.00			
01040*	COPPER, DISSOLVED (UG/L AS CU)	6	<100.00	<100.00	<100.00	1.00			
01046*	IRON, DISSOLVED (UG/L AS FE)	6	8599.97	200.00	2077.15	6.25	12959.35	332.93	602.86 2077.15 7156.76 21769.16 42341.20
01049*	LEAD, DISSOLVED (UG/L AS PB)	6	900.00	<10.00	166.88	5.36	892.56	31.20	53.75 166.88 518.16 1435.31 2639.75
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	6	200.00	80.00	136.26	1.53	208.99	88.84	102.06 136.26 181.92 235.92 275.59
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	200.00	200.00					
01065*	NICKEL, DISSOLVED (UG/L AS NI)	4	20.00	<10.00	16.82	1.41	27.21	10.40	13.31 16.82 21.25 26.23 29.74

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PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
01075* SILVER, DISSOLVED (UG/L AS AG)	4	<10.00	<10.00	<10.00	1.00		
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	1	9199.96	9199.96				
01090* ZINC, DISSOLVED (UG/L AS ZN)	6	500.00	100.00	188.60	2.05	387.00 91.91	116.04 188.60 306.53 474.41 616.02
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	1	100.00	100.00				
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	200.00	100.00	141.42	1.63	628.33 31.83	101.59 141.42 196.88 265.10 316.72
01145* SELENIUM, DISSOLVED (UG/L AS SE)	6	<10.00	<10.00	<10.00	1.00		
01503* GROSS ALPHA, DISSOLVED (PC/L)	5	5.90	0.90	2.57	2.41	7.07 0.93	1.42 2.57 4.66 7.94 10.93
03501 GROSS BETA, DISSOLVED (PC/L)	1	17.00	17.00				
32730* PHENOLS (UG/L)	2	83.00	<1.00	9.11	22.75122562.69	0.00	1.11 9.11 75.08 500.26 1555.21
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	6	<0.10	<0.10	<0.10	1.00		
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	5	0.90	0.30	0.46	1.51	0.75 0.29	0.46 0.61 0.79 0.91
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	5	0.90	0.10	0.35	2.44	0.98 0.13	0.35 0.64 1.11 1.53
71870 BROMIDE (MG/L)	1	<0.02	<0.02				
71890* MERCURY DISSOLVED (UG/L AS HG)	6	<10.00	<1.00	<3.55	3.20		

END OF CORE-POLE AM-2A AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 04/27/75 THRU 11/11/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- MC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
00003# SAMPLE DEPTH, FEET	2	1338.00	807.00	1072.50	375.47	2214.95	819.06 1072.50 1325.94 1553.86 1690.15
00011# TEMPERATURE, WATER (DEG. F)	2	44.06	43.70	43.88	0.25	44.65	43.71 43.88 44.05 44.21 44.30
00935# POTASSIUM, DISSOLVED (MG/L AS K)	2	0.10	0.10	0.10	1.00	0.10	0.10 0.10 0.10 0.10 0.10
00955# SILICA, DISSOLVED (MG/L AS SiO2)	2	15.00	10.00	12.25	1.33	29.30	5.12 10.09 12.25 14.86 17.69
01006# ALUMINIUM (UG/L)	2	500.00	500.00	500.00	1.00	500.00	500.00 500.00 500.00 500.00 500.00
01020# BORON, DISSOLVED (UG/L AS B)	2	300.00	200.00	244.95	1.33	586.03	102.38 201.85 244.95 297.25 353.75
01030# CHROMIUM, DISSOLVED (UG/L AS CR)	2	1.00	1.00	1.00	1.00	1.00	1.00 1.00 1.00 1.00 1.00
01046# IRON, DISSOLVED (UG/L AS FE)	2	7999.97	100.00	894.42	22.17118332.00	0.07	110.46 894.42 7242.36 47502.22146284.38
01049 LEAD, DISSOLVED (UG/L AS PB)	1	20.00	20.00				
01090# STRONTIUM, DISSOLVED (UG/L AS SR)	2	200.00	100.00	141.42	1.63	628.33	31.83 101.59 141.42 196.68 265.10
01090 ZINC, DISSOLVED (UG/L AS ZN)	1	5.00	5.00				
01130 LITHIUM, DISSOLVED (UG/L AS LI)	1	10.00	10.00				
01150# TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	10.00	10.00	1.00	10.07	9.93 9.98 10.00 10.02 10.03

END OF CORE-HOLE AM-3 ANALYSES 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10/07/73 THRU 10/10/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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AQUIFER C METHOD 1

NUMBER
OF

ANALYSES

PARAMETER DESCRIPTION

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

2 1538.00 807.00 1072.50 375.47 2214.95 -69.95 819.06 1072.50 1325.94 1553.86 1690.15

00011# TEMPERATURE, WATER
(DEG. F)

2 44.06 43.70 43.88 0.25 44.65 43.11 43.71 43.88 44.05 44.21 44.30

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

2 4719.95 2840.00 3661.25 1.43 10920.19 1227.52 2873.04 3661.25 4665.69 5802.25 6610.25

00400# PH (STANDARD UNITS)

2 8.40 8.40 8.40 0.01 8.43 8.37 8.39 8.40 8.41 8.41 8.42

00410# ALKALINITY, TOTAL
(MG/L AS CaCO3)

2 254.00 112.00 161.89 1.68 750.14 33.17 113.89 161.89 230.12 315.72 381.45

00440# BICARBONATE ION
(MG/L AS HCO3)

2 3129.99 1890.00 2432.21 1.43 7159.73 821.65 1911.80 2432.21 3094.28 3842.24 4373.35

00445# CARBONATE ION (MG/L
AS CO3)

2 270.00 129.00 186.63 1.69 914.32 38.09 131.18 186.63 265.51 364.55 440.64

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

2 3659.99 1550.00 2458.65 1.92 17898.75 337.73 1582.85 2458.65 3819.04 5674.71 7191.13

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

2 56.00 88.00 91.91 1.06 110.92 76.23 88.18 91.91 95.81 99.45 101.69

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

2 13.00 11.00 11.96 1.13 17.13 8.35 11.04 11.96 12.55 13.91 14.52

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

2 15.00 15.00 15.00 1.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00

00930# SODIUM, DISSOLVED
(MG/L AS Na)

2 1969.99 1775.00 1879.42 1.08 2402.49 1470.23 1779.78 1879.42 1984.64 2084.27 2146.23

00940# CHLORIDE, DISSOLVED
(MG/L AS Cl)

2 157.00 125.00 140.09 1.17 228.74 85.79 125.65 140.09 156.19 172.24 182.61

00945# SULFATE, DISSOLVED
(MG/L AS SO4)

2 260.00 108.00 167.57 1.86 1109.46 25.31 110.17 167.57 254.87 371.60 465.60

00950# FLUORIDE, TOTAL
(MG/L AS F)

2 60.00 50.00 54.77 1.14 81.08 37.00 50.21 54.77 59.75 64.61 67.71

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

2 15.00 12.00 13.42 1.17 21.68 8.30 12.06 13.42 14.92 16.42 17.39

01046# IRON, DISSOLVED
(UG/L AS Fe)

2 5669.97 220.00 1119.82 9.99230773.00 1.02 236.87 1119.82 5293.96 21401.82 49346.29

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN					THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
						UPPER	LOWER	25%	50%	75%	

01056* MANGANESE, DISSOLVED (UG/L AS MN) 2 <50.00 <50.00 <50.00 1.00

71951* NITROGEN, NITRATE DISS (MG/L AS NO3) 2 0.90 0.70 0.79 1.19 1.36 0.46 0.70 0.79 0.89 1.00 1.06

END OF CORE-HOLE AM-3. AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 10/07/73 THRU 10/10/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

AQUIFER L METHOD 2

PARAMETER DESCRIPTION

0011# TEMPERATURE, WATER (DEG. F)

00935 POTASSIUM, DISSOLVED (MG/L AS K)

00955 SILICA, DISSOLVED (MG/L AS SiO2)

01006 ALUMINIUM (UG/L)

01020 BORON, DISSOLVED (UG/L AS B)

01046 IRON, DISSOLVED (UG/L AS FE)

01080 STRONTIUM, DISSOLVED (UG/L AS SR)

01130 LITHIUM, DISSOLVED (UG/L AS LI)

END OF CORE-HOLE AM-3 AQUIFER L METHOD 2: SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/09/73 THRU 11/09/73

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
CF

PARAMETER DESCRIPTION

00011# TEMPERATURE, WATER
(DEG. F)

1 45.32 45.32

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 4739.99 4739.99

00400# PH (STANDARD UNITS)

1 8.20 8.20

00410 ALKALINITY, TOTAL
(MG/L AS CaCO_3)

1 6.20 6.20

00440 BICARBONATE ION
(MG/L AS HCO_3)

1 2630.00 2630.00

00445 CARBONATE ION (MG/L
AS CO_3)

1 78.00 78.00

00540 DISSOLVED SOLIDS
(PCE AT 178 DEG C, M)

1 2829.99 2829.99

00900 HARDNESS, TOTAL
(MG/L AS CaCO_3)

1 50.00 50.00

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

1 7.00 7.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 8.00 8.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

1 1110.00 1110.00

00940 CHLORIDE, DISSOLVED
(MG/L AS CL)

1 205.00 205.00

00945 SULFATE, DISSOLVED
(MG/L AS SO_4)

1 10.00 10.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1 1.00 1.00

00955 SILICA, DISSOLVED
(MG/L AS SiO_2)

1 11.00 11.00

01040 IRON, DISSOLVED
(UG/L AS FE)

1 <50.00 <50.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 <50.00 <50.00

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NUMBER OF ANALYSES

AQUIFER L METHOD 2

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

STANDARD DEVIATION MEAN

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3) 1 3.20 3.20

END OF CORE-HOLE AM-3 AQUIFER L METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/09/73 THRU 11/09/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

00003#	SAMPLE DEPTH, FEET	8	318.82	290.87	307.41	8.29	314.17	300.65	301.81	307.41	313.01	318.04	321.06
00011#	TEMPERATURE, WATER (DEG. F)	8	62.60	55.40	58.00	2.15	59.75	56.25	56.55	58.00	59.45	60.76	61.54
00915	CALCIUM, DISSOLVED (MG/L AS CA)	7	99999.00	10.00									
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	7	99999.00	10.00									
00930#	SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	5.00	7.58	1.46	11.73	4.90	5.87	7.58	9.79	12.33	14.15
00935#	POTASSIUM, DISSOLVED (MG/L AS K)	7	2.00	0.10	0.45	4.24	1.65	0.12	0.17	0.45	1.20	2.89	4.89
00955#	SILICA, DISSOLVED (MG/L AS SI02)	7	5.00	<0.50	2.15	2.16	4.25	1.07	1.27	2.13	3.59	5.73	7.59
01006#	ALUMINIUM (UG/L)	7	200.00	1.00	22.01	5.57	102.14	4.74	6.91	22.01	70.14	198.89	370.96
01020#	BORON, DISSOLVED (UG/L AS B)	6	500.00	200.00	368.40	1.60	590.99	229.65	267.69	368.40	507.01	675.67	802.27
01040#	COPPER, DISSOLVED (UG/L AS CU)	7	10.00	1.00	3.38	2.70	8.19	1.39	1.73	3.38	6.59	12.04	17.26
01046#	IRON, DISSOLVED (UG/L AS FE)	7	100.00	10.00	29.62	2.19	59.59	14.72	17.47	29.62	50.22	80.73	107.24
01049	LEAD, DISSOLVED (UG/L AS PB)	1	10.00	10.00									
01056#	MANGANESE, DISSOLVED (UG/L AS MN)	6	10.00	1.00	2.51	2.83	7.09	0.89	1.24	2.51	5.06	9.51	13.87
01060#	MOLYBDENUM, DISS (UG/L AS MO)	5	10.00	1.00	2.19	3.00	7.74	0.62	1.04	2.19	4.59	8.95	13.33
01080#	STRONTIUM, DISSOLVED (UG/L AS SR)	7	100.00	100.00	100.00	1.01	100.48	99.52	99.64	100.00	100.36	100.69	100.89
01090#	ZINC, DISSOLVED (UG/L AS ZN)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01095	ANTIMONY (UG/L)	1	200.00	200.00									

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NUMBER

OF

PARAMETER DESCRIPTION ANALYSES

MAXIMUM

MINIMUM

AQUIFER L METHOD 3

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

25%

LOWER

UPPER

STANDARD

MEAN

DEVIATION

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

6

10.00

1.00

2.15

3.28

7.07

0.66

0.97

2.15

4.81

9.89

15.23

01150* TITANIUM, DISSOLVED
(UG/L AS TI)

5

10.00

1.00

1.58

2.80

5.18

0.49

0.79

1.58

3.18

5.93

8.62

CS503* RADIUM (UG/L)

2

300.00

300.00

300.00

1.00

300.00

300.00

300.00

300.00

300.00

300.00

300.00

END OF CORE-HOLE AM-3 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE AM-3

NUMBER
OF

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

8 318.82 290.87 307.41 8.29 314.17 300.65 301.81 307.41 313.01 318.04 321.06

00011# TEMPERATURE, WATER
(DEG. F)

8 62.60 55.40 58.00 2.15 59.75 56.25 56.55 58.00 59.45 60.76 61.54

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

8 1711.00 845.00 1028.54 1.24 1227.05 862.14 888.73 1028.54 1190.35 1357.49 1468.45

00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CRO7

2 92.00 30.00 52.54 2.21 585.48 4.71 30.77 52.54 89.69 145.08 193.44

00400# PH (STANDARD UNITS)

8 8.00 6.40 7.17 0.52 7.60 6.75 6.82 7.17 7.53 7.84 8.03

00410# ALKALINITY, TOTAL
(MG/L AS CA CO3)

8 385.00 237.00 298.04 1.18 342.22 259.56 265.80 298.04 334.18 370.41 393.93

00440# BICARBONATE ION
(MG/L AS HCO3)

8 380.00 260.00 303.76 1.12 334.04 276.26 280.81 303.78 328.63 352.70 367.94

00445# CARBONATE ION (MG/L
AS CO3)

8 96.00 24.00 45.58 1.77 72.54 28.65 31.03 45.58 66.96 94.63 116.38

00540# DISSOLVED SOLIDS
(ROE AT 175 DEG C, M)

8 870.00 660.00 704.20 1.10 758.33 653.93 662.31 704.20 748.73 791.17 817.69

00608 NITROGEN, AMMONIA,
DISSOLVED (MG/L AS N)

1 0.50 0.50

00613# NITROGEN, NITRITE,
DISSOLVED (MG/L AS N)

2 0.30 <0.02 0.08 6.79 26.27 0.00 0.02 0.08 0.28 0.90 1.81

00681# CARBON, ORGANIC,
DISS (MG/L AS C)

7 33.00 6.00 12.91 1.84 22.29 7.48 8.55 12.91 19.50 28.25 35.26

00720# CYANIDE (MG/L AS CN)

8 <0.01 <0.01 <0.01 1.00

00746# SULFIDE, DISSOLVED
(MG/L AS S)

2 0.40 0.30 0.35 1.23 0.64 0.19 0.30 0.35 0.40 0.45 0.48

00900# HARDNESS, TOTAL
(MG/L AS CA CO3)

7 225.00 110.00 180.35 1.29 226.23 143.84 152.04 180.39 214.03 249.61 273.65

00915# CALCIUM, DISSOLVED
(MG/L AS CA)

8 20.00 4.90 11.64 1.59 17.02 7.96 8.50 11.64 15.94 21.15 25.05

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

8 45.00 23.00 34.91 1.25 41.82 29.13 30.05 34.91 40.54 46.38 50.26

CF
ANALYSES

AQUIFER L METHOD 3

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00930*	SODIUM, DISSOLVED (MG/L AS NA)	8	315.00	155.00	193.58	1.25	231.52	161.85	166.92	193.58	224.50	256.50	277.77
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	4.50	1.70	2.77	1.99	22.46	0.34	1.74	2.77	4.40	6.68	8.58
00940*	CHLORIDE, DISSOLVED (MG/L AS CL)	8	34.00	1.40	10.50	2.45	21.84	5.05	5.73	10.50	19.25	33.21	46.01
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	8	285.00	145.00	227.09	1.25	273.14	188.80	194.90	227.09	264.60	303.59	329.60
00950*	FLUORIDE, TOTAL (MG/L AS F)	8	42.00	0.30	2.13	4.29	6.99	0.65	0.80	2.13	5.70	13.78	23.37
00955*	SILICA, DISSOLVED (MG/L AS SI02)	8	5.70	<0.10	0.56	4.93	2.06	0.15	0.19	0.56	1.65	4.34	7.74
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
01020*	BORON, DISSOLVED (UG/L AS B)	8	2999.99	10.00	236.29	5.37	930.67	59.99	75.95	236.29	735.11	2039.84	3755.47
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	8	<10.00	<10.00	<10.00	1.00							
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	8	20.00	<10.00	10.91	1.28	13.32	8.93	9.24	10.91	12.87	14.93	16.32
01040*	COPPER, DISSOLVED (UG/L AS CU)	8	200.00	90.00	107.62	1.29	132.28	87.56	90.73	107.62	127.67	148.86	163.18
01046*	IRON, DISSOLVED (UG/L AS FE)	8	16199.95	<50.00	1350.08	6.13	5923.68	307.70	396.86	1350.08	4592.80	13811.13	26679.34
01049*	LEAD, DISSOLVED (UG/L AS PB)	8	25999.92	10.00	333.46	8.99	1997.32	55.67	75.75	333.46	1467.82	5565.04	12348.11
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	8	300.00	<50.00	124.07	2.08	225.26	68.34	75.72	124.07	203.29	316.92	413.31
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
01065*	NICKEL, DISSOLVED (UG/L AS NI)	6	<100.00	10.00	23.30	2.15	50.06	10.84	13.90	23.30	39.07	62.18	82.09

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	95% 75% 50% 90% 95%
01075* SILVER, DISSOLVED (UG/L AS AG)	6	<10.00	<10.00	<10.00	1.00			
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	1	2199.99	2199.99					
01090* ZINC, DISSOLVED (UG/L AS ZN)	8	9999.98	20.00	235.93	5.66	969.47	57.42	73.22 235.93 760.19 2177.05 4084.47
01106* ALUMINUM, DISSOLVED (UG/L AS AL)	2	600.00	<100.00	244.95	3.55	11568.05	5.19	104.15 244.95 576.08 1245.01 1968.83
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00			
01145* SELENIUM, DISSOLVED (UG/L AS SE)	8	<100.00	<10.00	<13.34	2.26			
01503* GROSS ALPHA, DISSOLVED (PC/L)	5	7.40	0.20	1.90	3.93	9.16	0.39	0.76 1.90 4.79 10.98 18.04
03501* GROSS BETA, DISSOLVED (PC/L)	2	26.00	4.00	10.20	3.76	572.13	0.18	4.17 10.20 24.92 55.65 89.97
32730* PHENOLS (UG/L)	2	57.00	<1.00	7.55	17.44	45258.43	0.00	1.10 7.55 52.00 294.89 832.44
705C7* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	8	<0.10	<0.10	<0.10	1.00			
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	0.40	0.02	0.14	2.82	0.36	0.06	0.07 0.14 0.29 0.54 0.79
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	7	0.50	0.10	0.22	2.24	0.45	0.11	0.13 0.22 0.38 0.62 0.83
71870* BROMIDE (MG/L)	2	<0.10	<0.02	<0.04	3.12			
71890* MERCURY DISSOLVED (UG/L AS HG)	8	<10.00	<1.00	<3.76	2.94			

END OF CORE-HOLE AM-3 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20Q45A-2

CCRE-HOLE AM-3
NUMBER
OF

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 321.00 321.00

00011# TEMPERATURE, WATER
(DEG. F)

1 41.90 41.90

00935 PCTASSIUM, DISSOLVED
(MG/L AS K)

1 0.50 0.50

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 20.00 20.00

01006 ALUMINIUM (UG/L)

1 10.00 10.00

01020 BORON, DISSOLVED
(UG/L AS B)

1 100.00 100.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 1.00 1.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 100.00 100.00

01080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1 500.00 500.00

01130 LITHIUM, DISSOLVED
(UG/L AS LI)

1 10.00 10.00

END OF CORE-HOLE AM-3 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10/04/73 THRU 10/04/73

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

1 321.00 321.00

1 41.90 41.90

1 1100.00 1100.00

1 8.20 8.20

1 15.50 15.50

1 378.00 378.00

1 18.00 18.00

1 713.00 713.00

1 300.00 300.00

1 34.00 34.00

1 52.00 52.00

1 190.00 190.00

1 30.00 30.00

1 285.00 285.00

1 1.00 1.00

1 25.00 25.00

1 170.00 170.00

1 170.00 170.00

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01056 MANGANESE, DISSOLVED (UG/L AS MN) 1 <50.00 <50.00

71851 NITROGEN, NITRATE DISS (UG/L AS NO3) 1 0.10 0.10

END OF CCRE-HOLE AM-3 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 10/04/73 THRU 10/04/73

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 LIMITS ON MEAN 25% 50% 75% 90% 95%
 UPPER LOWER

STANDARD
 DEVIATION

MEAN

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.10	0.10	
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	20.00	20.00	
01006	ALUMINIUM (UG/L)	1	100.00	100.00	
01020	BORON, DISSOLVED (UG/L AS B)	1	100.00	100.00	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	1.00	1.00	
01046	IRON, DISSOLVED (UG/L AS FE)	1	20.00	20.00	
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	10.00	10.00	
01065	NICKEL, DISSOLVED (UG/L AS NI)	1	10.00	10.00	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	500.00	500.00	
01095	VANADIUM, DISSOLVED (UG/L AS V)	1	1.00	1.00	
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	10.00	10.00	
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	10.00	10.00	
01150	TITANIUM, DISSOLVED (UG/L AS TI)	1	1.00	1.00	

END OF CORE-HOLE AM-3 AQUIFER U METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/12/73 THRU 11/12/73

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 LIMITS ON MEAN 25% 50% 75% 90% 95%
 UPPER LOWER

STANDARD
 DEVIATION

MEAN

AQUIFER U METHOD 2

MAXIMUM MINIMUM

ANALYSES

CORE-HOLE AM-3

NUMBER OF

PARAMETER DESCRIPTION

00935 POTASSIUM, DISSOLVED (MG/L AS K) 1 0.10 0.10

00955 SILICA, DISSOLVED (MG/L AS SiO2) 1 20.00 20.00

01006 ALUMINIUM (UG/L) 1 100.00 100.00

01020 BORON, DISSOLVED (UG/L AS B) 1 100.00 100.00

01030 CHROMIUM, DISSOLVED (UG/L AS CR) 1 1.00 1.00

01046 IRON, DISSOLVED (UG/L AS FE) 1 20.00 20.00

01060 MOLYBDENUM, DISS (UG/L AS MO) 1 10.00 10.00

01065 NICKEL, DISSOLVED (UG/L AS NI) 1 10.00 10.00

01080 STRONTIUM, DISSOLVED (UG/L AS SR) 1 500.00 500.00

01095 VANADIUM, DISSOLVED (UG/L AS V) 1 1.00 1.00

01090 ZINC, DISSOLVED (UG/L AS ZN) 1 10.00 10.00

01130 LITHIUM, DISSOLVED (UG/L AS LI) 1 10.00 10.00

01150 TITANIUM, DISSOLVED (UG/L AS TI) 1 1.00 1.00

END OF CORE-HOLE AM-3 AQUIFER U METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/12/73 THRU 11/12/73

H2OQASA-2

CORE-HOLE AM-3

NUMBER

OF

ANALYSES

MAXIMUM

MINIMUM

AQUIFER U METHOD 2

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER

LOWER

STANDARD

DEVIATION

MEAN

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

H200ASA-2			CORE-HOLE AM-3		AQUIFER U METHOD 3		REPORT DATE 03/10/77					PAGE 45	
NUMBER OF ANALYSES			MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		SPECTROGRAPHIC SAMPLES		
PARAMETER DESCRIPTION			MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		95% CONFIDENCE LIMITS ON MEAN		
											UPPER LOWER		
											25% 50% 75% 90% 95%		
					</								

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES				
						95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	
							25%	50%	75%	90%
01130* LITHIUM, DISSOLVED (UG/L AS LI)	4	10.00	1.00	5.62	3.16	27.80	1.14	2.59	5.62	12.23
01150* TITANIUM, DISSOLVED (UG/L AS TI)	3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
09503 RADIUM (UG/L)	1	100.00	100.00							

END OF CORE-HOLE AM-3 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 04/28/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2O-ASA-2	CORE-HOLE AM-3 NUMBER OF ANALYSES	AQUIFER U METHOD	3	REPORT DATE 03/10/77	PAGE	47
PARAMETER DESCRIPTION	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
00003# SAMPLE DEPTH, FEET	7	45.56	32.79	36.88	4.69	41.07 32.68 33.71 36.88 40.05 42.89 44.60
00011# TEMPERATURE, WATER (DEG. F)	7	54.50	46.40	50.11	2.91	52.72 47.51 48.15 50.11 52.08 53.85 54.90
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	7	1020.00	915.00	973.55	1.04	1011.17 938.17 946.81 973.99 1001.93 1027.75 1043.51
00340# CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	30.00	19.00	23.87	1.38	63.78 8.94 19.20 23.87 29.65 36.12 40.61
00400# PH (STANDARD UNITS)	7	7.30	6.60	6.99	0.25	7.21 6.76 6.81 6.99 7.16 7.31 7.40
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)	7	315.00	170.00	227.83	1.26	280.44 185.09 194.75 227.83 266.53 306.92 333.94
00440# BICARBONATE ION (MG/L AS HCO3)	7	370.00	170.00	243.43	1.31	310.58 190.80 202.52 243.43 292.59 345.23 381.13
00445# CARBONATE ION (MG/L AS CO3)	7	42.00	18.00	27.62	1.41	37.53 20.33 21.92 27.62 34.61 42.87 48.55
00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	7	850.00	560.00	688.34	1.17	792.20 588.09 619.03 688.34 765.40 842.04 891.49
00608 NITROGEN, AMMONIA, DISSOLVED(MG/L AS N)	1	0.40	0.40			
00613# NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	2	0.50	<0.02	0.10	9.74	101.78 0.00 0.02 0.10 0.46 1.85 4.23
00681# CARBON, ORGANIC, DISS (MG/L AS C)	7	18.00	9.00	11.44	1.32	14.70 8.91 9.47 11.44 13.62 16.38 18.14
00720# CYANIDE (MG/L AS CN)	7	0.06	<0.01	0.01	1.97	0.02 0.01 0.01 0.01 0.02 0.03 0.04
00746# SULFIDE, DISSOLVED (MG/L AS S)	2	0.20	<0.10	0.14	1.63	0.63 0.03 0.10 0.14 0.20 0.27 0.32
00900# HARDNESS, TOTAL (MG/L AS CaCO3)	6	250.00	150.00	183.22	1.20	219.50 152.93 162.16 183.22 207.01 231.03 246.71
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	7	31.00	6.60	13.18	1.73	21.50 8.08 9.10 13.18 19.07 26.59 32.44
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	7	47.00	33.00	37.58	1.14	42.22 33.45 34.42 37.58 41.03 44.40 46.55

H20QUASA-2

CCRE-HOLE AM-3
NUMBER
OF

AQUIFER U METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDWET SAMPLES
95% CONFIDENCE
LIMITS ON MEANSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

95%

90%

75%

50%

25%

LOWER

UPPER

STANDARD
DEVIATION

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UPPER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

95%

H20QASA-2

CORE-HOLE AM-3
NUMBER OF

AQUIFER U METHOD 3

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PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
01075* SILVER, DISSOLVED (UG/L AS AG)	5	<10.00	<10.00	1.00		
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	1	1100.00	1100.00			
01090* ZINC, DISSOLVED (UG/L AS ZN)	7	1300.00	<100.00	452.75	2.31	958.64 213.83 256.95 452.75 797.77 1327.72 1800.57
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	1	<100.00	<100.00			
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00	
01145* SELENIUM, DISSOLVED (UG/L AS SE)	7	<10.00	<10.00	<10.00	1.00	
01503* GROSS ALPHA, DISSOLVED (PC/L)	6	6.00	0.50	2.35	2.30	5.40 1.02 1.34 2.35 4.13 6.84 9.25
03501* GROSS BETA, DISSOLVED (PC/L)	2	8.00	4.00	5.66	1.63	25.13 1.27 4.06 5.66 7.88 10.60 12.67
32730* PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00	
70507* PHOSPHORUS, TOTAL CRTHO (MG/L AS P)	7	<0.10	<0.10	<0.10	1.00	
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	6	0.50	0.20	0.35	1.38	0.49 0.26 0.28 0.35 0.44 0.53 0.60
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	6	2.60	0.40	0.77	1.98	1.52 0.39 0.48 0.77 1.22 1.85 2.37
71870* BROMIDE (MG/L)	2	<0.10	<0.02	<0.04	3.12	
71890* MERCURY DISSOLVED (UG/L AS HG)	7	<10.00	<1.00	<3.27	2.95	

END OF CORE-HOLE AM-3 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 04/28/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

1 -

H20QASA-2		CORE-HOLE AM-4		AQUIFER C METHOD 1		REPORT DATE 03/10/77		PAGE 50						
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
							95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%
00003#	SAMPLE DEPTH, FEET	2	1983.00	1348.00	1665.50	449.01	3031.70	299.30	1362.42	1665.50	1968.58	2241.13	2404.13	
00011#	TEMPERATURE, WATER (DEG. F)	2	46.58	44.42	45.50	1.53	50.14	40.86	44.47	45.50	46.53	47.46	48.01	
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.50	0.50										
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04	
01006*	ALUMINIUM (UG/L)	2	500.00	100.00	223.61	3.12	7133.60	7.01	103.72	223.61	482.06	961.84	1453.84	
01015	BISMUTH, DISSOLVED (UG/L AS BI)	1	100.00	100.00										
01020*	BORON, DISSOLVED (UG/L AS B)	2	200.00	100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	30.00	30.00										
01040	COPPER, DISSOLVED (UG/L AS CU)	1	1.00	1.00										
01046*	IRON, DISSOLVED (UG/L AS FE)	2	200.00	50.00	100.00	2.67	1973.83	5.07	51.60	100.00	193.80	351.37	501.53	
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	10.00	10.00										
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	500.00	500.00										
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	10.00	10.00										
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	10.00	10.00										
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	100.00	100.00										
01150	TITANIUM, DISSOLVED (UG/L AS TI)	1	100.00	100.00										
END OF CORE-HOLE AM-4 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 09/04/73 THRU 09/10/73														
* -- ESTIMATE USING METHOD CF MOMENTS														
-- NC LCG TRANSFORM														

END OF CORE-HOLE AM-4 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 09/04/73 THRU 09/10/73

* -- ESTIMATE USING METHOD CF MOMENTS

-- NC LCG TRANSFORM

L -

H20CASA-2 CORE-HOLE AM-4 NUMBER OF ANALYSES 1 REPORT DATE 03/10/77 PAGE 51

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2004A-2

CORE-HOLE AM-4
NUMBER
OF

AQUIFER C METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

25% 50% 75% 90% 95%

95%

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	25%	50%	75%	90%	95%
00003# SAMPLE DEPTH, FEET	2 1983.00	1348.00	1665.50	449.01	3031.70	299.30	1362.42	1665.50	1968.58	2241.13	2404.13
00011# TEMPERATURE, WATER (DEG. F)	2 46.58	44.42	45.50	1.53	50.14	40.86	44.47	45.50	46.53	47.46	48.01
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	2 3799.99	2539.99	3106.76	1.33	7389.73	1306.13	2563.44	3106.76	3765.23	4475.75	4963.20
00400# PH (STANDARD UNITS)	2 8.50	8.40	8.45	0.07	8.67	8.23	8.40	8.45	8.50	8.54	8.57
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)	2 130.00	119.00	124.38	1.06	150.34	102.90	119.25	124.38	129.72	134.72	137.80
00440# BICARBONATE ICN (MG/L AS HCO3)	2 2189.99	1430.00	1769.66	1.35	4426.86	707.43	1443.94	1769.66	2168.84	2604.16	2905.20
00445# CARBONATE ICN (MG/L AS CO3)	2 159.00	146.00	152.36	1.06	183.06	126.81	146.28	152.36	158.69	164.61	168.26
00540# DISSOLVED SOLIDS (RCE AT 178 DEG C, M)	2 2679.99	2120.00	2383.61	1.18	3945.19	1440.12	2131.51	2383.61	2665.52	2947.39	3130.01
00900# HARDNESS, TOTAL (MG/L AS CaCO3)	2 148.00	43.00	79.77	2.40	1139.65	5.58	44.22	79.77	143.90	244.61	335.93
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	2 13.00	2.90	6.14	2.89	154.87	0.24	3.00	6.14	12.56	23.92	35.16
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	2 28.00	8.70	15.61	2.29	152.98	1.26	8.93	15.61	27.27	45.03	60.79
00930# SODIUM, DISSOLVED (MG/L AS Na)	2 1110.00	743.00	908.14	1.33	2153.57	382.96	749.83	908.14	1099.88	1306.65	1448.43
00940# CHLORIDE, DISSOLVED (MG/L AS Cl)	2 66.00	13.00	29.29	3.15	965.70	0.89	13.49	29.29	63.61	127.75	193.86
00945# SULFATE, DISSOLVED (MG/L AS SO4)	2 232.00	31.00	84.81	4.15	6443.28	1.12	32.45	84.81	221.64	525.81	881.45
00950# FLUORIDE, TOTAL (MG/L AS F)	2 40.00	30.00	34.64	1.23	64.32	18.66	30.20	34.64	39.74	44.96	48.41
00955# SILICA, DISSOLVED (MG/L AS SiO2)	2 11.90	11.00	11.44	1.06	13.55	9.66	11.02	11.44	11.88	12.29	12.54
01046# IRON, DISSOLVED (UG/L AS Fe)	2 200.00	100.00	141.42	1.63	628.33	31.93	101.59	141.42	196.88	265.10	316.72

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

01056* MANGANESE, DISSOLVED (UG/L AS MN) 2 <50.00 <50.00 <50.00 1.00

71851* NITROGEN, NITRATE DISS (MG/L AS NO3) 2 0.80 0.10 0.28 4.35 24.81 0.00 0.10 0.28 0.76 1.86 3.18

END OF CORE-PILE AM-4 AQUIFER C METHOD I WET SAMPLES REPORTING PERIOD IS 09/04/73 THRU 09/10/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER
OF

AQUIFER L METHOD 2

CCRE-HOLE AM-4

H2001SA-2

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
00011#	TEMPERATURE, WATER (DEG. F)	1	46.40	46.40				
00095	CONDUCTIVITY (UMHOS AT 25 DEG C)	1	3070.00	3070.00				
00400#	PH (STANDARD UNITS)	1	7.90	7.90				
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	1	<0.10	<0.10				
00440	BICARBONATE ION (MG/L AS HCO3)	1	2509.99	2509.99				
00445	CARBONATE ION (MG/L AS CO3)	1	<0.01	<0.01				
00540	DISSOLVED SOLIDS (RCE AT 176 DEG C, M)	1	3199.99	3199.99				
00900	IRON, TOTAL (MG/L AS CaCO3)	1	91.00	91.00				
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	1	25.00	25.00				
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	1	6.80	6.80				
00930	SODIUM, DISSOLVED (MG/L AS Na)	1	1180.00	1180.00				
00940	CHLORIDE, DISSOLVED (MG/L AS Cl)	1	155.00	155.00				
00945	SULFATE, DISSOLVED (MG/L AS SO4)	1	130.00	130.00				
00950	FLUORIDE, TOTAL (MG/L AS F)	1	46.00	46.00				
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	16.00	16.00				
01046	IRON, DISSOLVED (UG/L AS Fe)	1	<50.00	<50.00				
01056	MANGANESE, DISSOLVED (UG/L AS Mn)	1	<50.00	<50.00				

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95% THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

70507	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	1	0.10	0.10											
71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	1	2.50	2.50											

END OF CORE-HOLE AM-4 AQUIFER L METHOD 2 WET SAMPLES REPORTING PERIOD IS 10/31/73 THRU 10/31/73

* -- ESTIMATE USING METHOD OF MOMENTS
 # -- NO LCG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

PAKAMFTR DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

COCC3#	SAMPLE DEPTH, FEET	1	914.00	914.00					
OC011#	TEMPERATURE, WATER (DEG. F)	1	42.80	42.80					
CO935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.10	0.10					
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	20.00	20.00					
01006	ALUMINIUM (UG/L)	1	100.00	100.00					
01020	BORON, DISSOLVED (UG/L AS B)	1	100.00	100.00					
01046	IRON, DISSOLVED (UG/L AS FE)	1	100.00	100.00					
01060	STRONTIUM, DISSOLVED (UG/L AS SR)	1	500.00	500.00					

END OF CORE-HOLE AM-4 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 09/01/73 THRU 09/01/73

* -- ESTIMATE USING METHOD OF MOMENTS
 # -- NC LCG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

AQUIFER U METHOD 1

NUMBER
OF
ANALYSES

MINIMUM

MAXIMUM

MEAN

00003# SAMPLE DEPTH, FEET

1

914.00

914.00

00011# TEMPERATURE, WATER
(DEG. F)

1

42.80

42.80

00095 CONDUCTIVITY (UMHQS
AT 25 DEG C)

1

1350.00

1350.00

00400# PH (STANDARD UNITS)

1

7.90

7.90

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1

15.00

15.00

00440 BICARBONATE ION
(MG/L AS HCO3)

1

436.00

436.00

00445 CARBONATE ION (MG/L
AS CO3)

1

18.00

18.00

00540 DISSOLVED SOLIDS
(POE AT 178 DEG C, M)

1

1010.00

1010.00

00900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1

334.00

334.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1

32.00

32.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1

62.00

62.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1

277.00

277.00

00940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1

33.00

33.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1

453.00

453.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1

0.10

0.10

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1

24.00

24.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1

140.00

140.00

H20QASA-2

CORE-HOLE AM-4
NUMBER OF ANALYSES

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

01050 MANGANESE, DISSOLVED
(UG/L AS MN) 1 <50.00 <50.00

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3) 1 0.60 0.60

END OF CORE-HOLE AM-4 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 09/01/73 THRU 09/01/73

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

00011#	TEMPERATURE, WATER (DEG. F)	1	43.70	43.70					
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.05	0.05					
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	20.00	20.00					
01006	ALUMINIUM (UG/L)	1	50.00	50.00					
01020	BORON, DISSOLVED (UG/L AS B)	1	100.00	100.00					
01046	IRON, DISSOLVED (UG/L AS FE)	1	30.00	30.00					
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	100.00	100.00					
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	10.00	10.00					

END OF CORE-HOLE AM-4 AQUIFER U METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/01/73 THRU 11/01/73

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSECION
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

25% 50% 75% 90% 95%

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00011# TEMPERATURE, WATER
(DEG. F)

1 43.70 43.70

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 1300.00 1300.00

C0400# PH (STANDARD UNITS)

1 7.80 7.80

C0410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 <0.10 <0.10

C0440 BICARBONATE ION
(MG/L AS HCO3)

1 510.00 510.00

00445 CARBONATE ION (MG/L
AS CO3)

1 <0.01 <0.01

C0540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

1 815.00 815.00

C0500 HARDNESS, TOTAL
(MG/L AS CaCO3)

1 315.00 315.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1 63.00 63.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1 30.00 30.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1 280.00 280.00

C0940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1 88.00 88.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1 55.00 55.00

C0950 FLUORIDE, TOTAL
(MG/L AS F)

1 0.90 0.90

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 19.00 19.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1 <50.00 <50.00

01056 MANGANESE, DISSOLVED
(UG/L AS Mn)

1 <50.00 <50.00

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

70507 PHOSPHORUS, TOTAL ORTHO (MG/L AS P) 1 0.10 0.10

71851 NITROGEN, NITRATE DISS (MG/L AS NO3) 1 2.80 2.80

END OF CORE-HOLE AM-4 AQUIFER U METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/01/73 THRU 11/01/73

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 SPECTROGRAPHIC SAMPLES
 55% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

00003#	SAMPLE DEPTH, FEET	1	900.00	900.00					
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.30	0.30					
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	8.00	8.00					
01006	ALUMINIUM (UG/L)	1	100.00	100.00					
01020	BORON, DISSOLVED (UG/L AS B)	1	300.00	300.00					
01040	COPPER, DISSOLVED (UG/L AS CU)	1	5.00	5.00					
01046	IRON, DISSOLVED (UG/L AS FE)	1	20.00	20.00					
01056	MANGANESE, DISSOLVED (UG/L AS MN)	1	20.00	20.00					
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	40.00	40.00					
01030	STRONTIUM, DISSOLVED (UG/L AS SR)	1	300.00	300.00					
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	20.00	20.00					
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	10.00	10.00					
01150	TITANIUM, DISSOLVED (UG/L AS TI)	1	40.00	40.00					

END OF CORE-HOLE CE 701 ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/13/71 THRU 12/13/71

* --- ESTIMATE USING METHOD OF MOMENTS
 # --- NC LCG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

AQUIFER C METHOD 1

MAXIMUM

MINIMUM

PARAMETER DESCRIPTION

00002# SAMPLE DEPTH, FEET

1 900.00 900.00

00095 CONDUCTIVITY (UMHOS AT 25 DEG C)

1 1700.00 1700.00

00400# PH (STANDARD UNITS)

1 8.20 8.20

00410 ALKALINITY, TOTAL (MG/L AS CaCO3)

1 650.00 650.00

00440 BICARBONATE ION (MG/L AS HCO3)

1 780.00 780.00

00445 CARBONATE ION (MG/L AS CO3)

1 6.00 6.00

00540 DISSOLVED SOLIDS (ROE AT 178 DEG C, M)

1 1460.00 1460.00

00900 HARDNESS, TOTAL (MG/L AS CaCO3)

1 272.00 272.00

00915 CALCIUM, DISSOLVED (MG/L AS Ca)

1 31.00 31.00

00925 MAGNESIUM, DISSOLVED (MG/L AS Mg)

1 47.00 47.00

00930 SODIUM, DISSOLVED (MG/L AS Na)

1 350.00 350.00

00940 CHLORIDE, DISSOLVED (MG/L AS Cl)

1 31.00 31.00

00945 SULFATE, DISSOLVED (MG/L AS SO4)

1 330.00 330.00

00950 FLUORIDE, TOTAL (MG/L AS F)

1 7.00 7.00

00955 SILICA, DISSOLVED (MG/L AS SiO2)

1 15.00 15.00

01046 IRON, DISSOLVED (UG/L AS Fe)

1 270.00 270.00

01056 MANGANESE, DISSOLVED (UG/L AS Mn)

1 <100.00 <100.00

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H2004SA-2 CORE-POLE CE 701 AQUIFER C METHOD 1

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION
NUMBER OF						

71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	1	1.30	1.30
END OF CORE-HOLE 701				
AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 12/13/71 THRU 12/13/71				

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20-ASA-2

CORE-HOLE CE 701

NUMBER

OF

PARAMETER DESCRIPTION

ANALYSES

MAXIMUM

MINIMUM

AQUIFER L METHOD 2

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

STANDARD

DEVIATION

MEAN

CO011# TEMPERATURE, WATER

(DEG. F)

2

58.00

56.00

57.00

1.41

61.30

52.70

56.05

57.00

57.95

58.81

59.33

END OF CORE-HOLE CE 701 AQUIFER L METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/03/74 THRU 11/03/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2

CORE-HOLE CE 701

AQUIFER L METHOD 2

NUMBER OF ANALYSES

MAXIMUM

MINIMUM

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER

LOWER

STANDARD DEVIATION

MEAN

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

2

1.00

0.44

0.66

1.79

3.88

0.11

0.45

0.66

0.98

1.40

1.72

END OF CORE-HOLE CE 701 AQUIFER L METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/03/74 THRU 11/03/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOF" CONCENTRATIONS

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION 95% CONFIDENCE LIMITS ON MEAN
 SPECTROGRAPHIC SAMPLES
 THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 25% 50% 75% 90% 95%

00033#	SAMPLE DEPTH, FEET	2	700.00	400.00	550.00	212.13	1195.45	-95.45	406.81	550.00	693.19	821.95	898.96
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	0.30	0.20	0.24	1.33	0.59	0.10	0.20	0.24	0.30	0.35	0.39
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	2	15.00	10.00	12.25	1.33	29.30	5.12	10.09	12.25	14.86	17.69	19.63
01006*	ALUMINIUM (UG/L)	2	150.00	100.00	122.47	1.33	293.02	51.19	100.93	122.47	148.62	176.88	196.27
01020*	9CPON, DISSOLVED (UG/L AS B)	2	300.00	200.00	244.95	1.33	586.03	102.38	201.85	244.95	297.25	353.75	392.55
01040*	COPPER, DISSOLVED (UG/L AS CU)	2	6.00	2.00	3.46	2.17	36.82	0.33	2.05	3.46	5.85	9.38	12.43
01046*	IRON, DISSOLVED (UG/L AS FE)	2	150.00	50.00	86.60	2.17	920.56	8.15	51.26	86.60	146.30	234.45	310.82
01049	LEAD, DISSOLVED (UG/L AS PB)	1	5.00	5.00									
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	2	80.00	50.00	63.25	1.39	173.85	23.01	50.54	63.25	79.15	96.84	109.26
01060*	NICKEL, DISSOLVED (UG/L AS NI)	2	20.00	20.00	20.00	1.00	20.10	19.90	19.98	20.00	20.02	20.04	20.05
01075	SILVER, DISSOLVED (UG/L AS AG)	1	0.10	0.10									
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	200.00	200.00	200.00	1.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
01085*	VANADIUM, DISSOLVED (UG/L AS V)	2	40.00	20.00	28.28	1.63	125.66	6.37	20.32	28.28	39.38	53.02	63.34
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	20.00	20.00	20.00	1.00	20.10	19.90	19.98	20.00	20.02	20.04	20.05
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	2	50.00	40.00	44.72	1.17	72.28	27.67	40.20	44.72	49.75	54.75	57.97

END OF CORE-HOLE CE 701 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/09/71 THRU 12/11/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 701
NUMBER
OF

AQUIFER U METHOD 1

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

95%

75%

50%

25%

90%

95%

00003# SAMPLE DEPTH, FEET

2 700.00 400.00 550.00 212.13 1195.45 -95.45 406.81 550.00 693.19 321.95 898.96

00095* CONDUCTIVITY (UMHOS
AT 25 DEG C)

2 1230.00 1015.00 1117.34 1.15 1688.32 739.46 1019.56 1117.34 1224.49 1329.59 1396.70

00400# PH (STANDARD UNITS)

2 8.50 7.90 8.20 0.42 9.49 6.91 7.91 8.20 8.49 8.74 8.90

00410* ALKALINITY, TOTAL
(MG/L AS CaCO_3)

2 340.00 275.00 305.78 1.16 482.59 193.75 276.34 305.78 338.35 370.60 391.33

00440* BICARBONATE ION
(MG/L AS HCO_3)

2 415.00 320.00 364.42 1.20 637.46 208.33 321.90 364.42 412.55 461.23 493.05

00445* CARBONATE ION (MG/L
AS CO_3)

2 9.00 <0.10 0.95 24.09 15193.95 0.00 0.11 0.95 8.13 56.06 177.94

00540* DISSOLVED SOLIDS
(HCE AT 178 DEG C, M)

2 1170.00 790.00 961.40 1.32 2237.78 413.04 797.09 961.40 1159.59 1372.46 1518.01

00900* HARDNESS, TOTAL
(MG/L AS CaCO_3)

2 346.00 287.00 315.12 1.14 471.15 210.76 288.22 315.12 344.53 373.32 391.67

00915* CALCIUM, DISSOLVED
(MG/L AS CA)

2 43.00 31.00 36.51 1.26 73.81 18.06 31.23 36.51 42.68 49.12 53.42

00925* MAGNESIUM, DISSOLVED
(MG/L AS MG)

2 58.00 51.00 54.39 1.10 71.73 41.24 51.15 54.39 57.83 61.11 63.16

00930* SODIUM, DISSOLVED
(MG/L AS NA)

2 250.00 160.00 215.41 1.52 774.27 59.93 162.18 215.41 286.10 365.29 430.19

00940* CHLORIDE, DISSOLVED
(MG/L AS CL)

2 24.00 17.00 20.20 1.28 42.42 9.62 17.13 20.20 23.61 27.61 30.17

00945* SULFATE, DISSOLVED
(MG/L AS SO_4)

2 590.00 320.00 434.51 1.54 1620.60 116.50 324.47 434.51 581.86 756.60 885.26

00950* FLUORIDE, TOTAL
(MG/L AS F)

2 1.60 0.20 0.57 4.35 49.61 0.01 0.21 0.57 1.53 3.73 6.35

00955* SILICA, DISSOLVED
(MG/L AS SiO_2)

2 30.00 21.00 25.10 1.29 54.07 11.65 21.17 25.10 29.76 34.68 38.01

01046* IRON, DISSOLVED
(UG/L AS FE)

2 250.00 100.00 158.11 1.91 1135.36 22.02 102.10 158.11 244.85 362.83 459.04

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

2 <100.00 <100.00 <100.00 1.00

H2O-ASA-2 CCRE-HOLE CE 701 ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 71

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

71851* NITROGEN, NITRATE DISS (MG/L AS NO3) 2 1.50 1.40 1.45 1.05 1.68 1.25 1.40 1.45 1.50 1.54 1.57

END OF CORE-HOLE CE 701 ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

90%

75%

50%

25%

UPPER LOWER

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
OF

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

2 134.81 132.02 133.41 1.98 139.45 127.38 132.08 133.41 134.75 135.96 136.68

00011# TEMPERATURE, WATER
(DEG. F)

2 52.00 51.80 51.90 0.15 52.35 51.45 51.80 51.90 52.00 52.09 52.14

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

2 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

2 99999.00 99999.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

2 99999.00 10.00

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

2 2.00 1.00 1.41 1.63 6.28 0.32 1.02 1.41 1.97 2.65 3.17

00955# SILICA, DISSOLVED
(MG/L AS SI02)

2 10.00 2.00 4.47 3.12 142.68 0.14 2.07 4.47 9.64 19.24 29.08

01006# ALUMINIUM (UG/L)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01020# BORON, DISSOLVED
(UG/L AS B)

2 500.00 100.00 223.61 3.12 7133.66 7.01 103.72 223.61 482.06 961.84 1453.84

01040# COPPER, DISSOLVED
(UG/L AS CU)

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

01046# IRON, DISSOLVED
(UG/L AS FE)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

2 10.00 1.00 3.16 5.09 448.23 0.02 1.05 3.16 9.49 25.50 46.05

01060 POLYBENZENE, DISS
(UG/L AS MO)

1 10.00 10.00

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01130# LITHIUM, DISSOLVED
(UG/L AS LI)

2 100.00 10.00 31.62 5.09 4482.29 0.22 10.54 31.62 94.91 254.98 460.46

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 1.00 1.00

END OF CORE-HOLE CE 701 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/24/75 THRU 04/29/75

* -- ESTIMATE USING METHOD OF ELEMENTS

-- NC LOG TRANSFORM

H20WASA-2 CCRE-HOLE CE 701 NUMBER OF ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 701

AQUIFER U METHOD 3

NUMBER

OF

ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD

DEVIATION

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER

LOWER

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER	LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	25%	50%	75%	90%	95%
00003* SAMPLE DEPTH, FEET	2	134.81	132.02	133.41	1.98	139.45	127.38	132.08	133.41	134.75	135.86	136.68	
00011* TEMPERATURE, WATER (DEG. F)	2	52.00	51.80	51.90	0.15	52.35	51.45	51.80	51.90	52.00	52.09	52.14	
00055* CONDUCTIVITY (UMHOS AT 25 DEG C)	2	1120.00	1100.00	1109.95	1.01	1147.78	1073.30	1101.73	1109.95	1118.24	1125.74	1130.25	
00400* PH (STANDARD UNITS)	2	6.00	6.00	6.00	0.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	
00410* ALKALINITY, TOTAL (MG/L AS CaCO3)	2	155.00	104.90	127.51	1.32	295.35	55.05	105.83	127.51	153.63	181.66	200.80	
00440* BICARBONATE ION (MG/L AS HCO3)	2	190.00	120.00	151.00	1.38	405.81	56.18	121.26	151.00	183.05	229.02	257.69	
00440* CARBONATE ION (MG/L AS CO3)	2	6.00	<0.10	0.77	18.09	5185.20	0.00	0.11	0.77	5.47	31.69	90.66	
00540* DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	2	820.00	710.00	763.02	1.11	1039.33	559.84	712.37	763.02	817.27	869.34	902.06	
00681 CARBON, ORGANIC, DISS (MG/L AS C)	1	4.00	4.00										
00720* CYANIDE (MG/L AS CN)	2	<0.01	<0.01	<0.01	1.00								
00900* HARDNESS, TOTAL (MG/L AS CaCO3)	2	230.00	205.00	217.14	1.08	278.00	169.61	205.56	217.14	229.37	240.96	248.17	
00915* CALCIUM, DISSOLVED (MG/L AS Ca)	2	62.00	48.00	54.55	1.20	94.61	31.46	48.28	54.55	61.64	68.80	73.47	
00925* MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	27.00	12.00	18.00	1.77	103.04	3.14	12.22	18.00	26.51	37.54	46.23	
00930* SODIUM, DISSOLVED (MG/L AS Na)	2	190.00	155.00	171.61	1.15	265.39	110.76	155.72	171.61	189.12	206.38	217.45	
00940* CHLORIDE, DISSOLVED (MG/L AS Cl)	2	27.00	21.00	23.81	1.19	40.89	13.87	21.12	23.81	26.85	29.90	31.90	
00945* SULFATE, DISSOLVED (MG/L AS SO4)	2	410.00	360.00	384.19	1.10	508.21	290.43	361.07	384.19	408.79	432.25	446.92	
00950* FLUORIDE, TOTAL (MG/L AS F)	2	0.40	0.20	0.28	1.63	1.20	0.06	0.20	0.28	0.30	0.53	0.63	

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CORE-HOLE CE 701
NUMBER
OF ANALYSES

3

AQUIFER U METHOD

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

00555* SILICA, DISSOLVED
(MG/L AS SI02)

2

30.00

26.83

1.17

43.37

16.60

24.12

26.83

29.85

32.85

34.78

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

2

<10.00

<10.00

1.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

2

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

2

200.00

44.72

8.32

28163.09

0.07

10.70

44.72

186.85

675.94

1458.34

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

2

<10.00

6.32

1.91

45.41

0.88

4.08

6.32

9.79

14.51

18.36

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

2

<10.00

<10.00

1.00

01040* COPPER, DISSOLVED
(UG/L AS CU)

2

30.00

17.32

2.17

184.11

1.63

10.25

17.32

29.26

46.89

62.16

01046* IRON, DISSOLVED
(UG/L AS FE)

2

410.00

356.51

1.22

650.55

195.37

311.98

356.51

407.40

459.33

493.51

01049* LEAD, DISSOLVED
(UG/L AS PB)

2

80.00

15.49

10.19

18116.56

0.01

3.23

15.49

74.25

303.92

705.95

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

2

150.00

77.46

2.55

1330.77

4.51

41.22

77.46

145.57

250.71

360.40

01065* NICKEL, DISSOLVED
(UG/L AS NI)

2

20.00

4.47

8.32

2816.29

0.01

1.07

4.47

18.68

67.59

145.83

01075* SILVER, DISSOLVED
(UG/L AS AG)

2

50.00

7.07

15.90

31975.48

0.00

1.09

7.07

45.75

245.25

669.44

01090* ZINC, DISSOLVED
(UG/L AS ZN)

2

70.00

44.27

1.91

317.90

6.17

28.59

44.27

68.56

101.59

128.53

01106 ALUMINUM, DISSOLVED
(UG/L AS AL)

1

370.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

2

<10.00

<10.00

1.00

01503 GROSS ALPHA,
DISSOLVED (PC/L)

1

6.10

03501 GROSS BETA,
DISSOLVED (PC/L)

1

13.00

13.00

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CCRE-HOLE CE 702
NUMBER
OF
ANALYSES

AQUIFER C METHOD 1

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

00003# SAMPLE DEPTH, FEET

5 1759.00 415.00 1181.60 525.79 1786.14 577.06 826.69 1181.60 1536.50 1855.66 2046.52

00011# TEMPERATURE, WATER
(DEG. F)

5 75.00 47.00 59.40 11.35 72.45 46.35 51.74 59.40 67.06 73.95 78.07

00935 PCTASSIUM, DISSOLVED
(MG/L AS K)

1 0.20 0.20

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

5 20.00 10.00 11.93 1.34 16.71 8.52 9.79 11.93 14.54 17.36 19.31

01006# ALUMINIUM (UG/L)

5 500.00 50.00 190.36 2.74 607.06 59.70 96.36 190.36 376.06 693.66 1000.35

01020# BORON, DISSOLVED
(UG/L AS B)

5 300.00 100.00 124.57 1.63 219.16 70.81 89.41 124.57 173.56 233.87 279.53

01040# COPPER, DISSOLVED
(UG/L AS CU)

5 1.00 0.10 0.25 3.53 1.07 0.06 0.11 0.25 0.59 1.27 2.00

01046# IPCN, DISSOLVED
(UG/L AS FE)

5 400.00 20.00 109.86 3.04 394.65 30.58 51.85 109.86 232.74 457.17 684.57

01060# MOLYBDENUM, DISS
(UG/L AS MO)

3 5.00 2.00 3.68 1.70 9.74 1.39 2.58 3.68 5.27 7.26 8.80

01075# SILVER, DISSOLVED
(UG/L AS AG)

2 0.10 0.10 0.10 1.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

4 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01085# VANADIUM, DISSOLVED
(UG/L AS V)

5 10.00 1.00 3.98 3.53 16.97 0.93 1.70 3.98 9.33 20.05 31.70

01130# LITHIUM, DISSOLVED
(UG/L AS LI)

4 100.00 1.00 10.00 6.55 135.92 0.74 2.81 10.00 35.57 111.36 220.36

01150# TITANIUM, DISSOLVED
(UG/L AS TI)

5 20.00 5.00 10.00 1.63 17.57 5.69 7.18 10.00 13.92 18.74 22.40

END OF CORE-HOLE CE 702 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 08/18/72 THRU 08/29/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

CORE-HOLE CE 702										AQUIFER C METHOD 1		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES		55% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED						
							UPPER	LOWER		25%	50%	75%	95%			
CC003#	SAMPLE DEPTH, FEET		5	1759.00	415.00	1181.60	525.79	1786.14	577.06	826.69	1181.60	1536.50	1855.66	2046.52		
00011#	TEMPERATURE, WATER (DEG. F)		5	75.00	47.00	59.40	11.35	72.45	46.35	51.74	59.40	67.06	73.95	78.07		
00095#	CONDUCTIVITY (UMHOS AT 25 DEG C)		5	2999.99	880.00	1591.20	1.75	3031.74	835.14	1099.85	1591.20	2323.19	3265.02	4001.97		
CC0400#	PH (STANDARD UNITS)		5	8.40	7.90	8.04	0.21	8.28	7.80	7.90	8.04	8.18	8.31	8.38		
CC0410#	ALKALINITY, TOTAL (MG/L AS CaCO3)		5	1580.00	286.00	624.22	2.23	1567.81	248.53	363.53	624.22	1071.86	1742.95	2331.08		
00440#	BICARBONATE ION (MG/L AS HCO3)		5	1850.00	350.00	757.48	2.20	1874.93	306.03	444.93	757.48	1289.58	2080.88	2770.22		
00445#	CARBONATE ION (MG/L AS CO3)		5	100.00	15.00	37.86	2.02	84.91	16.88	23.56	37.86	60.83	93.17	120.24		
CC0540#	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)		5	2160.00	665.00	1190.30	1.68	2160.30	655.84	838.86	1190.30	1688.58	2313.56	2792.58		
CC0900#	HARDNESS, TOTAL (MG/L AS CaCO3)		5	380.00	54.00	103.99	2.20	257.93	41.93	61.01	103.99	177.26	286.33	381.44		
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)		5	63.00	12.00	17.52	2.05	40.01	7.67	10.79	17.52	28.45	44.00	57.11		
00925#	MAGNESIUM, DISSOLVED (MG/L AS MG)		5	54.00	5.00	13.92	2.63	42.27	4.59	7.25	13.92	26.72	48.03	68.19		
CC0930#	SODIUM, DISSOLVED (MG/L AS Na)		5	890.00	200.00	387.17	2.04	877.79	170.77	239.44	387.17	626.03	964.43	1248.82		
CC0940#	CHLORIDE, DISSOLVED (MG/L AS CL)		5	160.00	17.00	38.94	2.44	108.73	13.95	21.31	38.94	71.15	122.35	169.20		
00945#	SULFATE, DISSOLVED (MG/L AS SO4)		5	340.00	105.00	198.67	1.56	330.31	119.50	147.41	198.67	267.76	350.19	411.16		
CC0950#	FLUORIDE, TOTAL (MG/L AS F)		5	25.00	0.20	4.08	6.67	36.18	0.46	1.13	4.08	14.70	46.50	92.58		
00955#	SILICA, DISSOLVED (MG/L AS SiO2)		5	25.00	13.00	16.33	1.29	21.96	12.14	13.72	16.33	19.43	22.72	24.95		
01046#	IRON, DISSOLVED (UG/L AS FE)		5	300.00	<50.00	155.18	2.17	378.77	63.58	91.90	155.18	262.03	419.70	556.28		

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CORE-HOLE CE 702 AQUIFER L METHOD 2

NUMBER
OF

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN

STANDARD
DEVIATION

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

UPPER LOWER 25% 50% 75% 90% 95%

00011# TEMPERATURE, WATER
(DEG. F)

1 54.00 54.00

END OF CORE-HOLE CE 702 AQUIFER L METHOD 2 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/05/74 THRU 11/05/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

H20QASA-2 CCPE-HOLE CE 702 NUMBER OF ANALYSES 2
 REPORT DATE 03/10/77
 WET SAMPLES
 95% CONFIDENCE
 LIMITS ON MEAN
 UPPER LOWER
 THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 25% 50% 75% 90% 95%
 STANDARD
 DEVIATION
 MEAN
 MINIMUM
 MAXIMUM

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PARAMETER DESCRIPTION

00011# TEMPERATURE, WATER
(DEG. F)

1 54.00 54.00

00055 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 6759.58 6759.58

00400# PH (STANDARD UNITS)

1 8.50 8.50

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 3214.99 3214.99

00440 BICARBONATE ION
(MG/L AS HCO3)

1 3899.99 3899.99

00445 CARBONATE ION (MG/L
AS CO3)

1 18.00 18.00

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

1 3979.55 3979.99

00900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1 40.00 40.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1 8.00 8.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1 5.00 5.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1 1350.00 1350.00

00940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1 10.00 10.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1 <4.00 <4.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1 30.00 30.00

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 10.00 10.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1 120.00 130.00

01056 MANGANESE, DISSOLVED
(UG/L AS Mn)

1 400.00 400.00

H20QASA-2 CCRE-HOLE CE 702 AQUIFER L METHOD 2

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3) 1 15.00 15.00

END OF CORE-HOLE CE 702 AQUIFER L METHOD 2 WET SAMPLES REPORTING PERIOD IS 11/05/74 THRU 11/05/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES					THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED		
						95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%
00003# SAMPLE DEPTH, FEET	8	49.18	23.79	38.89	7.29	44.84	32.95	33.97	38.89	43.81	46.24	50.88	
00011# TEMPERATURE, WATER (DEG. F)	8	75.20	59.40	65.77	5.93	70.61	60.94	61.77	65.77	69.78	73.37	75.52	
00915# CALCIUM, DISSOLVED (MG/L AS CA)	6	99999.00	0.10	0.95	4.47	7.56	0.12	0.34	0.95	2.60	6.45	11.11	
00925# MAGNESIUM, DISSOLVED (MG/L AS MG)	7	99999.00	0.10	0.56	3.16	2.78	0.11	0.26	0.56	1.22	2.46	3.74	
00930# SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04	
00935# POTASSIUM, DISSOLVED (MG/L AS K)	7	5.00	0.01	0.57	8.63	3.93	0.08	0.13	0.57	2.45	9.06	19.82	
00955# SILICA, DISSOLVED (MG/L AS SiO2)	7	5.00	2.00	2.96	1.63	4.59	1.91	2.13	2.96	4.12	5.55	6.63	
01006# ALUMINIUM (UG/L)	7	500.00	1.00	22.01	11.09	189.14	2.56	4.34	22.01	111.69	481.28	1152.85	
01020# BOPCN, DISSOLVED (UG/L AS B)	7	500.00	100.00	276.96	2.16	552.30	138.88	164.46	276.96	466.41	745.29	986.40	
01040# COPPER, DISSOLVED (UG/L AS CU)	5	10.00	1.00	2.51	3.53	10.71	0.59	1.07	2.51	5.88	12.65	20.00	
01046# IRON, DISSOLVED (UG/L AS FE)	7	500.00	10.00	43.87	3.72	142.00	13.55	18.07	43.87	106.50	236.49	381.05	
01049 LEAD, DISSOLVED (UG/L AS PB)	1	1.00	1.00										
01056# MANGANESE, DISSOLVED (UG/L AS MN)	4	20.00	1.00	2.11	4.47	16.91	0.26	0.77	2.11	5.81	14.43	24.85	
01060# MOLYBDENUM, DISS (UG/L AS MO)	2	10.00	1.00	3.16	5.09	449.23	0.02	1.05	3.16	9.49	25.50	46.05	
01075 SILVER, DISSOLVED (UG/L AS AG)	1	0.10	0.10										
01080# STRONTIUM, DISSOLVED (UG/L AS SR)	6	100.00	10.00	31.62	3.53	111.47	8.97	13.50	31.62	74.08	159.29	251.77	
01090 ZINC, DISSOLVED (UG/L AS ZN)	1	1.00	1.00										

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN UPPER	25% LOWER	50%	75%	90%	95%	
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	5	10.00	1.00	6.31	2.80	20.62	1.93	3.15	6.31	12.64	23.62	34.33
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
09503*	RADIUM (UG/L)	4	900.00	200.00	501.00	1.93	1248.43	201.05	321.36	501.00	781.04	1164.34	1478.37

END OF CORE-HOLE CE 702 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/21/75 THRU 11/10/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NO LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CCRE-HOLE CE 702

NUMBER
OF

AQUIFER L METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER

LOWER

STANDARD

DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

8

49.18

23.79

38.89

7.29

44.84

32.95

33.97

38.89

43.81

48.24

50.88

00011# TEMPERATURE, WATER
(DEG. F)

8

75.20

59.40

65.77

5.93

70.61

60.94

61.77

65.77

69.78

73.37

75.52

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

8

5179.99

3999.99

4575.71

1.09

4919.71

4255.75

4309.17

4575.71

4858.73

5128.15

5296.35

00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CR07

2

30.00

23.00

26.27

1.21

46.52

14.83

23.14

26.27

29.82

33.42

35.78

00400# PH (STANDARD UNITS)

8

8.80

7.40

8.14

0.49

8.53

7.74

7.81

8.14

8.47

8.76

8.94

00410# ALKALINITY, TOTAL
(MG/L AS CA-03)

8

2929.99

1995.00

2503.31

1.14

2785.58

2249.64

2291.38

2503.31

2734.84

2961.27

3105.55

00440# BICARBONATE ION
(MG/L AS HCO3)

8

3309.99

1750.00

2613.22

1.20

3039.47

2246.75

2305.93

2613.22

2961.46

3314.08

3544.70

00445# CARBONATE ION (MG/L
AS CO3)

8

710.00

235.00

364.00

1.53

514.95

257.29

273.12

364.00

485.11

628.08

733.00

00540# DISSOLVED SOLIDS
(RCE AT 178 DEG C, M)

8

3640.00

2979.99

3176.72

1.07

3346.77

3015.30

3042.48

3176.72

3316.87

3448.19

3529.19

00608 NITROGEN, AMMONIA,
DISSOLVED (MG/L AS N)

1

3.20

3.20

00613# NITROGEN, NITRATE,
DISSOLVED (MG/L AS N)

2

0.60

<0.02

0.11

11.08

165.05

0.00

0.02

0.11

0.56

2.39

5.72

00681# CARBON, ORGANIC,
DISS (MG/L AS C)

7

26.00

7.00

13.83

1.51

20.00

9.57

10.47

13.83

18.27

23.47

27.25

00720# CYANIDE (MG/L AS CN)

6

<0.01

<0.01

<0.01

1.00

00746# SULFIDE, DISSOLVED
(MG/L AS S)

2

0.40

0.30

0.35

1.23

0.64

0.19

0.30

0.35

0.40

0.45

0.48

00900# HARDNESS, TOTAL
(MG/L AS CA-03)

7

36.00

20.00

26.90

1.24

32.54

22.24

23.30

26.90

31.06

35.34

38.18

00915# CALCIUM, DISSOLVED
(MG/L AS CA)

6

49.00

0.80

4.17

3.34

11.15

1.56

1.85

4.17

9.41

19.56

30.29

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

8

6.80

1.90

3.82

1.61

5.62

2.60

2.77

3.82

5.26

7.00

8.32

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CCRE-HOLE CE 702

NUMBER

AQUIFER L METHOD 3

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

C0930*	SODIUM, DISSOLVED (MG/L AS NA)	8	1560.00	1250.00	1369.58	1.09	1466.28	1279.24	1294.35	1369.58	1449.17	1524.69	1571.72
C0935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	15.00	3.30	7.04	2.92	182.84	0.27	3.42	7.04	14.49	27.76	40.94
C0940*	CHLORIDE, DISSOLVED (MG/L AS CL)	8	86.00	14.00	53.49	1.76	84.68	33.79	36.57	53.49	78.25	110.16	135.16
C0945*	SULFATE, DISSOLVED (MG/L AS SO4)	8	100.00	<4.00	25.15	3.00	61.65	10.29	12.00	25.19	52.85	102.90	153.28
C0950*	FLUORIDE, TOTAL (MG/L AS F)	8	40.00	24.00	30.69	1.16	34.70	27.14	27.72	30.69	33.98	37.23	39.33
C0955*	SILICA, DISSOLVED (MG/L AS SiO2)	8	16.00	4.40	10.91	1.49	15.10	7.88	8.33	10.91	14.28	18.18	21.01
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
C1005*	BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
C1020*	BORON, DISSOLVED (UG/L AS B)	8	4659.58	560.00	2522.43	1.92	4288.99	1483.48	1625.37	2522.43	3914.57	5811.95	7361.50
C1025*	CADMIUM, DISSOLVED (UG/L AS CD)	8	10.00	10.00	10.00	1.00	10.02	9.98	9.99	10.00	10.01	10.03	10.03
C1030*	CHROMIUM, DISSOLVED (UG/L AS CR)	8	<10.00	<10.00	<10.00	1.00							
C1040*	COPPER, DISSOLVED (UG/L AS CU)	8	<100.00	<10.00	<66.87	2.30							
C1046*	IRON, DISSOLVED (UG/L AS FE)	8	1799.99	<50.00	397.42	5.19	1522.75	103.72	130.69	397.42	1208.48	3285.31	5974.72
C1049*	LEAD, DISSOLVED (UG/L AS PB)	8	900.00	20.00	163.81	4.31	538.90	49.79	61.12	163.81	439.05	1065.50	1810.59
C1056*	MANGANESE, DISSOLVED (UG/L AS MN)	8	70.00	<50.00	52.15	1.13	57.45	47.33	48.13	52.15	56.50	60.73	63.41
C1060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
C1065*	NICKEL, DISSOLVED (UG/L AS NI)	6	60.00	10.00	24.93	2.22	55.41	11.21	14.53	24.93	42.77	69.48	92.88

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CORE-HOLE CE 702
NUMBER
CF

AQUIFER L METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

25% 50% 75% 90% 95%

01075*	SILVER, DISSOLVED (UG/L AS AG)	6	<10.00	<10.00	<10.00	1.00							
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	900.00	900.00									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	8	67999.81	<100.00	908.79	6.76	4314.91	191.41	250.24	908.79	3300.35	10525.24	21059.09
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	200.00	<10.00	44.72	8.32	28163.09	0.07	10.70	44.72	186.85	675.94	1458.34
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	6	27.00	3.50	12.16	1.98	24.02	6.16	7.68	12.16	19.26	29.13	37.30
03501*	GROSS BETA, DISSOLVED (PC/L)	4	49.00	8.00	20.83	2.19	61.95	7.00	12.26	20.83	35.39	57.00	75.80
32730*	PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	8	1.00	0.30	0.46	1.52	0.55	0.33	0.35	0.46	0.61	0.78	0.91
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	1.60	0.42	1.07	1.61	1.63	0.70	0.78	1.07	1.47	1.96	2.33
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	7	0.74	0.10	0.23	2.07	0.44	0.12	0.14	0.23	0.38	0.59	0.76
71870*	BROMIDE (MG/L)	2	<0.10	<0.02	<0.04	3.12							
71890*	MERCURY DISSOLVED (UG/L AS HG)	8	<10.00	<2.00	<5.47	2.30							

END OF CORE-HOLE CE 702 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/21/75 THRU 11/10/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "c9995.0" ARE "MAJOR" CONCENTRATIONS

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CCPE-HOLE CE 702
NUMBER
OF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%
00003# SAMPLE DEPTH, FEET	8 54.34	49.00	51.86	1.57	53.14	50.58	50.80	51.86	52.92	53.87	54.45
00011# TEMPERATURE, WATER (DEG. F)	8 68.90	60.80	63.41	3.20	66.02	60.80	61.25	63.41	65.57	67.51	68.68
00915# CALCIUM, DISSOLVED (MG/L AS CA)	6 99999.00	1.00	3.02	2.85	10.06	0.91	1.49	3.02	6.12	11.55	16.89
00925# MAGNESIUM, DISSOLVED (MG/L AS MG)	7 99999.00	0.10	1.00	5.09	6.50	0.15	0.33	1.00	3.00	8.06	14.56
00930# SODIUM, DISSOLVED (MG/L AS NA)	7 99999.00	5.00	7.07	1.63	31.42	1.59	5.08	7.07	9.84	13.25	15.84
00935# POTASSIUM, DISSOLVED (MG/L AS K)	7 5.00	0.01	0.52	8.20	3.40	0.08	0.13	0.52	2.14	7.68	16.49
C0955# SILICA, DISSOLVED (MG/L AS SI02)	7 5.00	1.00	3.06	1.93	5.49	1.70	1.96	3.06	4.76	7.08	8.99
01005 BARIUM, DISSOLVED (UG/L AS BA)	1 1.00	1.00									
01006# ALUMINIUM (UG/L)	7 200.00	1.00	19.31	5.97	95.29	3.91	5.78	19.31	64.46	190.59	364.47
01020# BORON, DISSOLVED (UG/L AS B)	7 500.00	100.00	213.17	1.93	384.44	118.20	136.56	213.17	332.75	496.62	631.00
01040# COPPER, DISSOLVED (UG/L AS CU)	5 5.00	1.00	1.90	2.41	5.25	0.69	1.05	1.90	3.45	5.89	8.12
01046# IRON, DISSOLVED (UG/L AS FE)	7 50.00	10.00	13.89	1.86	24.21	7.98	9.14	13.89	21.13	30.80	38.59
01049 LEAD, DISSOLVED (UG/L AS PB)	1 1.00	1.00									
01056# MANGANESE, DISSOLVED (UG/L AS MN)	3 5.00	1.00	1.71	2.53	9.43	0.31	0.91	1.71	3.20	5.63	7.89
01060 MOLYBDENUM, DISS (UG/L AS MO)	1 10.00	10.00									
01080# STRONTIUM, DISSOLVED (UG/L AS SR)	6 100.00	10.00	31.62	3.53	111.47	8.97	13.50	31.62	74.08	159.29	251.77
01090 ZINC, DISSOLVED (UG/L AS ZN)	1 1.00	1.00									

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
						UPPER	LOWER	25%	50%	75%	90%	95%

C1130* LITHIUM, DISSOLVED (UG/L AS LI)	5	10.00	1.00	3.98	3.53	16.97	0.93	1.70	3.98	9.33	20.05	31.70
01150* TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
09503* RADIUM (UG/L)	4	400.00	100.00	168.18	1.94	422.48	66.95	107.46	168.18	263.22	393.78	501.04

END OF CORE-HOLE CE 702 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/21/75 THRU 11/10/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

H20QASA-2

CORE-HOLE CE 702
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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

8

54.34

49.00

51.86

1.57

53.14

50.58

50.80

51.86

52.92

53.88

54.45

00011# TEMPERATURE, WATER
(DEG. F)

8

68.90

60.80

63.41

3.20

66.02

60.80

61.25

63.41

65.57

67.52

68.68

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

8

4199.99

3229.99

3850.19

1.08

4110.71

3606.19

3647.05

3850.19

4064.65

4207.70

4393.93

00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CR07

2

47.00

20.00

30.66

1.83

152.71

4.88

20.39

30.66

46.10

66.52

82.83

00400# PH (STANDARD UNITS)

8

8.00

7.10

7.51

0.26

7.72

7.30

7.34

7.51

7.69

7.84

7.94

00410# ALKALINITY, TOTAL
(MG/L AS CaCO3)

8

2390.00

1974.99

2188.44

1.07

2312.21

2071.29

2090.99

2188.44

2290.42

2386.19

2445.36

00440# BICARBONATE ION
(MG/L AS HCO3)

8

2760.00

2099.99

2459.31

1.09

2628.77

2300.77

2327.30

2459.31

2598.80

2730.97

2813.21

00445# CARBONATE ION (MG/L
AS CO3)

8

335.00

66.00

165.89

1.69

254.39

108.18

116.44

165.89

236.35

324.93

353.07

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M

8

2789.99

2429.99

2614.20

1.06

2722.26

2501.23

2520.32

2614.20

2711.57

2802.23

2857.89

00608 NITROGEN, AMMONIA,
DISSOLVED(MG/L AS N)

1

1.80

1.80

1.80

1.80

1.80

1.80

1.80

1.80

1.80

1.80

1.80

00613# NITROGEN, NITRITE,
DISSOLVED(MG/L AS N)

2

0.50

<0.02

0.10

9.74

101.78

0.00

0.02

0.10

0.46

1.85

4.23

00681# CARBON, ORGANIC,
DISS (MG/L AS C)

7

18.00

6.00

11.50

1.45

16.06

8.23

8.93

11.50

14.80

18.57

21.27

00720# CYANIDE (MG/L AS CN)

8

<0.01

<0.01

<0.01

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

00746# SULFIDE, DISSOLVED
(MG/L AS S)

2

0.60

0.03

0.13

8.32

84.49

0.00

0.03

0.13

0.56

2.03

4.38

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

7

64.00

32.00

48.96

1.29

61.52

38.97

41.21

48.96

58.17

67.92

74.52

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

8

15.00

4.50

7.39

1.43

9.89

5.52

5.80

7.39

9.41

11.69

13.31

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

8

11.00

3.50

7.41

1.48

10.19

5.39

5.69

7.41

9.64

12.22

14.08

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PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
					UPPER	LOWER	25%	50%	75%	90%	95%
C0930* SODIUM, DISSOLVED (MG/L AS NA)	8 1170.00	1030.00	1114.01	1.05	1156.21	1073.34	1080.23	1114.01	1148.84	1181.08	1200.80
00935* POTASSIUM, DISSOLVED (MG/L AS K)	2 11.00	2.50	5.24	2.85	127.07	0.22	2.59	5.24	10.64	20.09	29.38
C0940* CHLORIDE, DISSOLVED (MG/L AS CL)	8 69.00	51.00	59.75	1.13	65.87	54.20	55.11	59.75	64.78	69.66	72.75
00945* SULFATE, DISSOLVED (MG/L AS SO4)	8 100.00	<4.00	27.11	2.80	62.74	11.71	13.53	27.11	54.30	101.42	147.37
C0950* FLUORIDE, TOTAL (MG/L AS F)	8 30.00	21.00	25.25	1.11	27.53	23.16	23.51	25.25	27.13	28.93	30.07
00955* SILICA, DISSOLVED (MG/L AS SiO2)	8 27.00	9.30	18.13	1.35	23.20	14.17	14.78	18.13	22.23	26.71	29.81
01000* ARSENIC, DISSOLVED (UG/L AS AS)	8 <10.00	<10.00	<10.00	1.00							
01005* BARIUM, DISSOLVED (UG/L AS BA)	6 <1000.00	<1000.00	<1000.00	1.00							
01020* BORON, DISSOLVED (UG/L AS B)	8 4259.58	1899.99	3135.61	1.28	3824.90	2570.53	2659.95	3135.61	3696.33	4295.69	4682.15
01025* CADMIUM, DISSOLVED (UG/L AS CD)	8 10.00	10.00	10.00	1.00	10.02	9.98	9.99	10.00	10.01	10.03	10.03
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	8 <10.00	<10.00	<10.00	1.00							
01040* COPPER, DISSOLVED (UG/L AS CU)	8 100.00	<10.00	71.72	2.24	138.34	37.18	41.63	71.72	123.55	201.49	269.96
01046* IRON, DISSOLVED (UG/L AS FE)	8 8999.98	<50.00	553.23	9.66	3514.51	87.12	119.74	553.33	2556.86	10126.66	23064.33
01040* LEAD, DISSOLVED (UG/L AS PB)	8 1200.00	20.00	154.46	4.05	483.37	49.36	60.06	154.46	397.21	228.77	1543.51
01056* MANGANESE, DISSOLVED (UG/L AS M)	8 100.00	20.00	57.88	1.67	87.80	38.16	41.00	57.88	81.72	111.45	134.16
C1060 MOLYBDENUM, DISS (UG/L AS MO)	1 <100.00	<100.00									
01065* NICKEL, DISSOLVED (UG/L AS NI)	6 40.00	10.00	22.89	1.92	44.02	11.91	14.72	22.89	35.61	52.97	67.18

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

01075*	SILVER, DISSOLVED (UG/L AS AG)	6	<100.00	<10.00	<19.79	2.91	872.70	112.41	134.08	313.21	731.62	1569.00	2476.12
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	3859.99	3899.99									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	8	1000.00	30.00	313.21	3.51	872.70	112.41	134.08	313.21	731.62	1569.00	2476.12
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	200.00	80.00	126.45	1.91	908.29	17.62	81.68	126.49	195.88	290.27	367.23
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	6	22.00	1.20	8.19	2.83	23.16	2.90	4.06	8.19	16.54	31.09	45.36
03501*	GROSS BETA, DISSOLVED (PC/L)	2	73.00	19.00	37.24	2.59	674.11	2.06	19.59	37.24	70.80	126.17	178.24
3273C*	PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	6	0.35	<0.10	0.12	1.56	0.17	0.08	0.09	0.12	0.16	0.21	0.24
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	1.80	0.30	0.93	2.03	1.76	0.50	0.58	0.93	1.51	2.32	3.00
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	7	1.70	<0.01	0.20	5.06	0.87	0.05	0.07	0.20	0.61	1.62	2.92
71870*	BROMIDE (MG/L)	2	<0.10	<0.02	<0.04	3.12							
71890*	MERCURY DISSOLVED (UG/L AS HG)	8	<10.00	<1.00	<3.76	2.94							

END OF CORE-HOLE CE 702 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/21/75 THRU 11/10/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER
OF

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 1200.00 1200.00

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

1 0.30 0.30

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 5.00 5.00

01006 ALUMINIUM (UG/L)

1 80.00 80.00

01020 BORON, DISSOLVED
(UG/L AS B)

1 200.00 200.00

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1 1.00 1.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 10.00 10.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 150.00 150.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 20.00 20.00

01060 MOLYBDENUM, DISS
(UG/L AS MO)

1 20.00 20.00

01080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1 200.00 200.00

01085 VANADIUM, DISSOLVED
(UG/L AS V)

1 50.00 50.00

01130 LITHIUM, DISSOLVED
(UG/L AS LI)

1 200.00 200.00

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 200.00 200.00

END OF CCRE-HOLE CE 703 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/26/71 THRU 12/26/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "55995.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

AQUIFER C METHOD 1

PARAMETER DESCRIPTION ANALYSES

00003# SAMPLE DEPTH, FEET

1 1200.00 1200.00

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 2849.99 2849.99

00400# PH (STANDARD UNITS)

1 8.30 8.30

C0410 ALKALINITY, TOTAL
(MG/L AS CaCO_3)

1 1500.00 1500.00

C0440 BICARBONATE ION
(MG/L AS HCO_3)

1 1500.00 1500.00

00445 CARBONATE ION (MG/L
AS CO_3)

1 120.00 120.00

00540 DISSOLVED SOLIDS
(RCE AT 178 DEG C, M)

1 2300.00 2300.00

C0900 HARDNESS, TOTAL
(MG/L AS CaCO_3)

1 100.00 100.00

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

1 16.00 16.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 14.00 14.00

C0930 SODIUM, DISSOLVED
(MG/L AS NA)

1 680.00 680.00

C0940 CHLORIDE, DISSOLVED
(MG/L AS CL)

1 50.00 50.00

C0945 SULFATE, DISSOLVED
(MG/L AS SO_4)

1 80.00 80.00

C0950 FLUORIDE, TOTAL
(MG/L AS F)

1 45.00 45.00

00955 SILICA, DISSOLVED
(MG/L AS SiO_2)

1 11.00 11.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 100.00 100.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 <100.00 <100.00

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CCRE-HOLE CE 703 AQUIFER C METHOD 1

703 AC

NUMBER

ANALYSES

MINIMUM

MAXIMUM

MINIMUM

STANDARD
DEVIATION

MEAN

STANDARD
DEVIATION

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN
UPPER LOWER

LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS

More Than 100 Years Old	Between 50 and 100 Years Old	Between 25 and 50 Years Old	Less Than 25 Years Old
25%	50%	75%	90%

90%

90%

90%

855

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3)NITROGEN, NITRATE
DISS (MG/L AS NO3)

1

1.00

1.00

END OF CORE-HCLE CE 703 AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 12/26/71 THRU 12/26/71

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LCG TRANSFORM

VALUES OF "S999.0" ARE "WJOP" CONCENTRATIONS

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CORE-HOLE CE 703
NUMBER
OF

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDPARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
UPPER LOWER 25% 50% 75% 90% 95%

00003#	SAMPLE DEPTH, FEET	2	714.00	100.00	407.00	434.16	1728.02	-914.02	113.94	407.00	700.06	963.60	1121.20
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	0.50	0.40	0.45	1.17	0.72	0.28	0.40	0.45	0.50	0.55	0.58
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	2	10.00	6.00	7.75	1.44	23.25	2.58	6.07	7.75	9.88	12.31	14.03
01006*	ALUMINIUM (UG/L)	2	60.00	20.00	34.64	2.17	368.22	3.26	20.51	34.64	58.52	93.78	124.33
01020*	BORON, DISSOLVED (UG/L AS B)	2	400.00	200.00	282.84	1.63	1256.66	63.66	203.17	282.84	393.75	530.19	633.44
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	5.00	5.00									
01040*	COPPER, DISSOLVED (UG/L AS CU)	2	50.00	8.00	20.00	3.65	1031.25	0.39	8.34	20.00	47.96	105.32	168.57
01046*	IRON, DISSOLVED (UG/L AS FE)	2	150.00	60.00	94.87	1.91	681.21	13.21	61.26	94.87	146.91	217.70	275.42
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	2	30.00	20.00	24.49	1.33	58.60	10.24	20.18	24.49	29.72	35.37	39.25
01060*	MOLYBDENUM, DISS (UG/L AS MO)	2	50.00	20.00	31.62	1.91	227.07	4.40	20.42	31.62	48.97	72.57	91.81
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	300.00	200.00	244.95	1.33	586.03	102.38	201.85	244.95	297.25	333.75	392.55
01085*	VANADIUM, DISSOLVED (UG/L AS V)	2	100.00	50.00	70.71	1.63	314.16	15.92	50.79	70.71	98.44	132.55	158.36
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	200.00	50.00	100.00	2.67	1973.83	5.07	51.60	100.00	193.80	351.37	501.53
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	2	150.00	50.00	86.60	2.17	920.56	8.15	51.26	86.60	146.30	234.45	310.82

END OF CORE-HOLE CE 703 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/22/71 THRU 12/24/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2		CORE-HOLE CE 7C3	AQUIFER U METHOD 1	REPORT DATE 03/10/77		PAGE 97						
		NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
PARAMETER DESCRIPTION							25%	50%	75%	90%	95%	
00003# SAMPLE DEPTH, FEET	2	714.00	100.00	407.00	434.16	1728.02	-914.02	113.94	407.00	700.06	963.60	1121.20
00055# CONDUCTIVITY (UMHOS AT 25 DEG C)	2	2829.99	2460.00	2638.51	1.10	3563.10	1953.84	2468.40	2638.51	2820.34	2994.54	3103.81
00400# PH (STANDARD UNITS)	2	8.40	8.40	8.40	0.01	8.43	8.37	8.39	8.40	8.41	8.41	8.42
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)	2	1360.00	1300.00	1329.66	1.03	1464.74	1207.03	1301.42	1329.66	1358.51	1384.99	1401.07
00440# BICARBONATE ICN (MG/L AS HCO3)	2	1300.00	1200.00	1249.00	1.06	1483.41	1051.63	1202.24	1249.00	1297.58	1342.87	1370.71
00445# CARBONATE ICN (MG/L AS CO3)	2	120.00	36.00	65.73	2.34	876.42	4.93	37.00	65.73	116.76	195.76	266.65
00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	2	2199.99	1740.00	1956.52	1.18	3240.73	1181.21	1749.31	1956.52	2188.28	2420.04	2570.22
00900# HARDNESS, TOTAL (MG/L AS CaCO3)	2	170.00	140.00	154.27	1.15	234.27	101.59	140.62	154.27	169.25	183.96	193.36
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	2	65.00	46.00	54.68	1.28	115.05	25.99	46.36	54.68	64.49	74.81	81.75
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	6.00	2.00	3.46	2.17	36.82	0.33	2.05	3.46	5.85	9.38	12.43
00930# SODIUM, DISSOLVED (MG/L AS Na)	2	640.00	490.00	560.00	1.21	994.58	315.31	493.00	560.00	636.10	713.33	763.93
00940# CHLORIDE, DISSOLVED (MG/L AS Cl)	2	80.00	50.00	63.25	1.39	173.85	23.01	50.54	63.25	79.15	96.84	109.26
00945# SULFATE, DISSOLVED (MG/L AS SO4)	2	150.00	130.00	139.64	1.11	189.97	102.64	130.42	139.64	149.51	158.98	164.93
00950# FLUORIDE, TOTAL (MG/L AS F)	2	40.00	30.00	34.64	1.23	64.32	18.66	30.20	34.64	39.74	44.96	48.41
00955# SILICA, DISSOLVED (MG/L AS SiO2)	2	15.00	12.00	13.42	1.17	21.68	8.30	12.06	13.42	14.92	16.42	17.39
01046# IRON, DISSOLVED (UG/L AS Fe)	2	100.00	<50.00	70.71	1.63	314.16	15.92	50.79	70.71	98.44	132.55	158.36
01056# MANGANESE, DISSOLVED (UG/L AS Mn)	2	<100.00	<100.00	<100.00	1.00							

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

71851* NITROGEN, NITRATE DISS (MG/L AS NO3) 2 5.00 1.50 2.74 2.34 36.52 0.21 1.54 2.74 4.87 8.16 11.11

END OF CORE-HOLE CE 703 ANALYSES U METHOD 1 WET SAMPLES REPORTING PERIOD IS 12/22/71 THRU 12/24/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H200A5A-2 CCRE-HOLE CE 704C NUMBER OF ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER 25% 50% 75% 90% 95%

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION

AQUIFER C METHOD 1

ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER 25% 50% 75% 90% 95%

00003* SAMPLE DEPTH, FEET

2 1900.00 1600.00 1750.00 212.13 2395.45 1104.55 1606.81 1750.00 1893.19 2021.95 2098.96

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2 0.40 0.30 0.35 1.23 0.64 0.19 0.30 0.35 0.40 0.45 0.48

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

2 8.00 6.00 6.93 1.23 12.87 3.73 6.04 6.93 7.95 8.99 9.68

01006* ALUMINIUM (UG/L)

2 150.00 100.00 122.47 1.33 293.02 51.19 100.93 122.47 148.62 176.88 196.27

01020* BOKON, DISSOLVED
(UG/L AS B)

2 200.00 200.00 200.00 1.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00

01040* COPPER, DISSOLVED
(UG/L AS CU)

2 10.00 2.00 4.47 3.12 142.69 0.14 2.07 4.47 9.64 19.24 29.08

01046* IRON, DISSOLVED
(UG/L AS FE)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01080* STRONTIUM, DISSOLVED
(UG/L AS SR)

2 300.00 200.00 244.95 1.33 586.03 102.38 201.85 244.95 297.25 353.75 392.55

01085* VANADIUM, DISSOLVED
(UG/L AS V)

2 20.00 10.00 14.14 1.63 62.83 3.18 10.16 14.14 19.69 26.51 31.67

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

2 200.00 200.00 200.00 1.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00

01150* TITANIUM, DISSOLVED
(UG/L AS TI)

2 70.00 50.00 59.16 1.27 122.02 28.68 50.38 59.16 69.47 80.26 87.50

END OF CORE-HOLE CE 704C AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/29/71 THRU 12/30/71

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN	
WET SAMPLES		95% CONFIDENCE		LIMITS ON MEAN		UPPER		LOWER	
STANDARD DEVIATION		THEORETICAL PROBABILITY OF BEING LESS		THAN OR EQUAL TO VALUE LISTED		25%		50%	
75%		90%		95%					
C0003* SAMPLE DEPTH, FEET		2		1900.00		1600.00		1750.00	
C0095* CONDUCTIVITY (UMHQS		2		2750.00		2580.00		2663.64	
AT 25 DEG C)									
C00400* PH (STANDARD UNITS)		2		8.50		8.30		8.40	
C00410* ALKALINITY, TOTAL		2		1899.99		1500.00		1688.19	
(MG/L AS CaCO3)									
C00440* BICARBONATE ION		2		1800.00		1700.00		1749.28	
(MG/L AS HCO3)									
C00445* CARBONATE ION (MG/L		2		110.00		48.00		72.66	
AS CO3)									
C00540* DISSOLVED SOLIDS		2		2359.99		2290.00		2344.35	
(ROE AT 176 DEG C, M									
C0900C* HARDNESS, TOTAL		2		38.00		30.00		33.76	
(MG/L AS CaCO3)									
C00915* CALCIUM, DISSOLVED		2		11.00		7.00		8.77	
(MG/L AS Ca)									
C00925* MAGNESIUM, DISSOLVED		2		3.00		2.00		2.45	
(MG/L AS MG)									
C00930* SODIUM, DISSOLVED		2		760.00		700.00		729.38	
(MG/L AS Na)									
C00940* CHLORIDE, DISSOLVED		2		41.00		34.00		37.34	
(MG/L AS CL)									
C00945* SULFATE, DISSOLVED		2		60.00		40.00		48.99	
(MG/L AS SO4)									
C00950* FLUORIDE, TOTAL		2		16.00		16.00		16.00	
(MG/L AS F)									
C00955* SILICA, DISSOLVED		2		12.00		12.00		12.00	
(MG/L AS SiO2)									
C01046* IRON, DISSOLVED		2		80.00		80.00		80.00	
(UG/L AS FE)									
C01056* MANGANESE, DISSOLVED		2		<100.00		<100.00		<100.00	
(UG/L AS MANG)									

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CORE-HOLE CE 704C
NUMBER OF ANALYSES

AQUIFER C METHOD 1

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

2

0.90

0.60

0.73

1.33

1.76

0.31

0.61

0.73

0.89

1.06

1.18

END OF CORE-HOLE CE 704C AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 12/29/71 THRU 12/30/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

00003*	SAMPLE DEPTH, FEET	3	1200.00	400.00	766.67	404.15	1509.13	24.20	493.87	766.67	1039.46	1284.78	1431.49
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	3	0.70	0.10	0.24	2.68	1.48	0.04	0.12	0.24	0.47	0.85	1.22
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	3	10.00	8.00	9.28	1.14	11.76	7.33	8.51	9.28	10.13	10.95	11.47
01006*	ALUMINIUM (UG/L)	3	150.00	100.00	114.47	1.26	175.98	74.46	97.74	114.47	134.07	154.53	168.24
01020*	BORON, DISSOLVED (UG/L AS B)	3	300.00	200.00	228.94	1.26	351.94	148.93	195.48	228.94	268.13	309.06	336.46
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	3	1.00	0.50	0.63	1.49	1.31	0.30	0.48	0.63	0.83	1.05	1.22
01040*	COPPER, DISSOLVED (UG/L AS CU)	3	50.00	10.00	21.54	2.24	94.94	4.89	12.49	21.54	37.15	60.65	81.30
01046*	IRON, DISSOLVED (UG/L AS FE)	3	150.00	100.00	114.47	1.26	175.98	74.46	97.74	114.47	134.07	154.53	168.24
C1049	LEAD, DISSOLVED (UG/L AS PB)	1	1.00	1.00									
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	3	50.00	20.00	34.20	1.61	82.27	14.22	24.77	34.20	47.22	63.10	75.05
01060*	MOLYBDENUM, DISS (UG/L AS MO)	3	5.00	1.00	2.92	2.53	16.12	0.53	1.56	2.92	5.47	9.62	13.48
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	3	400.00	200.00	251.98	1.49	525.57	120.81	192.34	251.98	330.12	420.88	486.68
01085*	VANADIUM, DISSOLVED (UG/L AS V)	3	40.00	40.00	40.00	1.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	3	200.00	200.00	200.00	1.00	201.35	198.65	199.50	200.00	200.50	200.94	201.21
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	3	150.00	80.00	106.27	1.38	190.83	59.17	85.70	106.27	131.77	159.89	179.50

END OF CORE-HOLE CE 704C AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 12/26/71 THRU 12/28/71

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LCG TRANSFORM

VALUES OF "55595.0" ARE "MAJOR" CONCENTRATIONS

H20-LASA-2		CCPE-HOLE CE 704C		AQUIFER U METHOD 1		REPORT DATE 03/10/77		PAGE 103					
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN					
OF		NUMBER		STANDARD		DEVIATION		WET SAMPLES					
THEORETICAL PROBABILITY OF BEING LESS		THAN OR EQUAL TO VALUE LISTED		25%		50%		75%					
95%		LIMITS ON MEAN		LOWER		UPPER		95%					
00003*	SAMPLE DEPTH, FEET	3	1200.00	400.00	766.67	404.15	1509.13	24.20	493.87	766.67	1039.46	1284.78	1431.49
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	3	1132.00	970.00	1051.90	1.08	1212.57	912.52	998.37	1051.90	1108.29	1161.59	1194.68
00400*	PH (STANDARD UNITS)	3	8.90	8.40	8.60	0.26	9.09	8.11	8.42	8.60	8.78	8.94	9.04
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	3	330.00	310.00	319.89	1.03	338.60	302.22	313.28	319.89	326.65	332.84	336.60
00440*	BICARBONATE ION (MG/L AS HCO3)	3	310.00	290.00	299.89	1.03	318.78	282.12	293.23	299.89	306.69	312.95	316.75
00445*	CARBONATE ION (MG/L AS CO3)	3	54.00	36.00	43.38	1.23	63.18	29.79	37.79	43.38	49.81	56.40	60.75
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	3	910.00	770.00	844.65	1.09	986.99	722.83	797.67	844.65	894.39	941.62	971.04
C0900*	HARDNESS, TOTAL (MG/L AS CaCO3)	3	140.00	70.00	97.30	1.42	184.35	51.35	76.94	97.30	123.05	151.98	172.44
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	3	20.00	12.00	14.23	1.34	24.46	8.28	11.66	14.23	17.36	20.76	23.11
00925*	MAGNESIUM, DISSOLVED (MG/L AS MG)	3	23.00	10.00	15.11	1.52	32.48	7.03	11.41	15.11	20.02	25.77	29.98
C0930*	SODIUM, DISSOLVED (MG/L AS Na)	3	240.00	230.00	233.29	1.02	243.84	223.19	229.52	233.29	237.11	240.60	242.71
C0940*	CHLORIDE, DISSOLVED (MG/L AS CL)	3	28.00	27.00	27.33	1.02	28.41	26.29	26.94	27.33	27.72	28.08	28.29
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	3	280.00	210.00	244.97	1.16	319.67	187.72	222.14	244.97	270.13	294.97	310.90
C0950*	FLUORIDE, TOTAL (MG/L AS F)	3	3.50	0.30	1.19	3.51	11.92	0.12	0.51	1.19	2.77	5.94	9.37
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	3	19.00	12.00	15.71	1.27	24.40	10.11	13.36	15.71	18.47	21.36	23.30
01046*	IRON, DISSOLVED (UG/L AS FE)	3	130.00	60.00	77.64	1.56	176.30	34.19	57.44	77.64	104.94	137.60	161.81
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	3	<100.00	<100.00	<100.00	1.00							

71851* NITROGEN, NITRATE DISS (MG/L AS NO3) 3 1.30 1.00 1.13 1.14 1.44 0.89 1.03 1.13 1.23 1.34 1.40

END OF CORE-HOLE CE 704C ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 104

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE CE 705A
NUMBER
OF
ANALYSES

AQUIFER C METHOD 1

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

95%

C0003*	SAMPLE DEPTH, FEET	3	1375.00	775.00	1075.00	300.00	1626.14	523.86	872.50	1075.00	1277.50	1459.60	1568.50
C0011*	TEMPERATURE, WATER (DEG. F)	3	57.00	54.00	55.33	1.53	58.14	52.53	54.30	55.33	56.36	57.29	57.85
O0935*	POTASSIUM, DISSOLVED (MG/L AS K)	3	0.50	0.10	0.27	2.39	1.35	0.05	0.15	0.27	0.49	0.83	1.14
C0955*	SILICA, DISSOLVED (MG/L AS SiO2)	3	15.00	10.00	12.16	1.23	17.67	8.38	10.61	12.16	13.95	15.78	16.99
O1006*	ALUMINIUM (UG/L)	3	80.00	70.00	76.52	1.08	88.15	66.42	72.64	76.52	80.60	84.46	86.85
O1020*	BORON, DISSOLVED (UG/L AS B)	2	400.00	200.00	282.84	1.63	1256.66	63.66	203.17	282.84	393.75	530.19	633.44
O1040*	COPPER, DISSOLVED (UG/L AS CU)	3	10.00	8.00	8.96	1.12	11.00	7.30	8.31	8.96	9.66	10.34	10.77
O1046*	IRON, DISSOLVED (UG/L AS FE)	3	80.00	30.00	52.41	1.66	132.35	20.76	37.30	52.41	73.66	100.04	120.13
O1049	LEAD, DISSOLVED (UG/L AS PB)	1	10.00	10.00									
O1056	MANGANESE, DISSOLVED (UG/L AS MN)	1	20.00	20.00									
O1060*	MOLYBDENUM, DISS (UG/L AS MO)	3	61.00	8.00	29.00	3.06	226.96	3.71	13.62	29.00	61.77	121.89	183.03
O1075	SILVER, DISSOLVED (UG/L AS AG)	1	0.40	0.40									
O1090*	STRONTIUM, DISSOLVED (UG/L AS SR)	3	500.00	400.00	464.16	1.14	588.05	366.37	425.51	464.16	506.31	547.48	573.68
O1085*	VANADIUM, DISSOLVED (UG/L AS V)	3	50.00	50.00	50.00	1.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
O1130*	LITHIUM, DISSOLVED (UG/L AS LI)	3	20.00	10.00	12.60	1.49	26.28	6.04	9.62	12.60	16.51	21.05	24.34
O1150*	TITANIUM, DISSOLVED (UG/L AS TI)	3	20.00	5.00	9.28	2.02	33.90	2.54	5.77	9.28	14.94	22.92	29.61

END OF CORE-HOLE CE 705A AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/24/71 THRU 12/06/71

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LOG TRANSFORM

H20QASA-2

CCRE-HOLE CE 705A AQUIFER C METHOD 1

NUMBER

OF

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

STANDARD
DEVIATION

MEAN

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

UPPER LOWER

50%

75%

90%

95%

REPORT DATE 03/10/77

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H2QQA5A-2		CORE-HOLE CE 705A		AQUIFER C METHOD 1		REPORT DATE 03/10/77					PAGE 107		
PARAMETER DESCRIPTION ANALYSES		MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			95%		
						UPPER	LOWER	25%	50%	75%			
CCCC3#	SAMPLE DEPTH, FEET	3	1375.00	775.00	1075.00	300.00	1626.14	523.86	872.50	1075.00	1277.50	1459.60	1568.50
00011#	TEMPERATURE, WATER (DEG. F)	3	57.00	54.00	55.33	1.53	58.14	52.53	54.30	55.33	56.36	57.29	57.85
00095#	CONDUCTIVITY (UMHOS AT 25 DEG C)	3	1910.00	1200.00	1588.85	1.28	2500.88	1009.42	1344.92	1588.85	1877.02	2180.53	2385.01
00400#	PH (STANDARD UNITS)	3	8.30	7.40	7.87	0.45	8.70	7.04	7.56	7.87	8.17	8.44	8.61
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)	3	780.00	335.00	567.65	1.58	1321.27	243.87	416.16	567.65	774.27	1023.58	1209.54
00440#	BICARBONATE ION (MG/L AS HCO3)	3	950.00	410.00	675.11	1.56	1519.57	259.94	501.09	675.11	909.57	1169.19	1395.96
00445#	CARBONATE ION (MG/L AS CO3)	3	30.00	<0.10	0.67	26.93	283.86	0.00	0.07	0.67	6.16	45.62	150.77
00540#	DISSOLVED SOLIDS (GCE AT 178 DEG C, M	3	1560.00	840.00	1220.54	1.39	2243.40	664.04	975.93	1220.54	1526.44	1866.49	2105.04
00900#	HARDNESS, TOTAL (MG/L AS CaCO3)	3	290.00	248.00	261.98	1.09	307.97	222.85	246.86	261.98	278.02	293.28	302.81
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)	3	39.00	29.00	34.08	1.16	44.89	25.88	30.80	34.08	37.71	41.30	43.61
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)	3	47.00	39.00	42.88	1.10	50.89	36.12	40.26	42.88	45.66	48.32	49.98
00930#	SODIUM, DISSOLVED (MG/L AS Na)	3	380.00	170.00	282.77	1.56	637.56	125.41	209.75	282.77	381.21	498.68	585.59
00940#	CHLORIDE, DISSOLVED (MG/L AS Cl)	3	50.00	17.00	30.99	1.73	85.05	11.29	21.38	30.99	44.90	62.69	76.53
00945#	SULFATE, DISSOLVED (MG/L AS SO4)	3	260.00	190.00	234.19	1.20	326.62	167.91	207.24	234.19	264.64	295.38	315.45
00950#	FLUORIDE, TOTAL (MG/L AS F)	3	9.00	1.50	4.76	2.72	30.02	0.76	2.42	4.76	9.37	17.21	24.76
00955#	SILICA, DISSOLVED (MG/L AS SiO2)	3	27.00	24.00	24.96	1.07	28.28	22.03	23.84	24.96	26.13	27.23	27.91
01046#	IRON, DISSOLVED (UG/L AS Fe)	3	90.00	<50.00	73.99	1.40	138.01	39.66	58.84	73.99	93.03	114.31	129.30

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CORE-HOLE CE 705A
NUMBER OF ANALYSES

AQUIFER C METHOD

1

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

3

<50.00

<50.00

<50.00

1.00

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3

15.00

1.30

3.75

3.51

37.62

0.37

1.61

3.75

8.75

18.74

29.56

END OF CORE-HOLE CE 705A AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/24/71 THRU 12/06/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "59999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2

CORE-HOLE CE 705A

AQUIFER U METHOD 2

NUMBER
OF

PARAMETER DESCRIPTION

ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATION

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

UPPER

LOWER

25%

50%

75%

90%

95%

REPORT DATE 03/10/77

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00003# SAMPLE DEPTH, FEET

4

295.41

29.44

165.52

149.96

373.67

-42.63

64.29

165.52

266.74

357.77

412.21

00011# TEMPERATURE, WATER

(DEG. F)

6

58.60

53.60

56.42

1.75

58.17

54.67

55.23

56.42

57.60

58.66

59.30

00915 CALCIUM, DISSOLVED

(MG/L AS CA)

6

99999.00

99999.00

99999.00

99999.00

00925 MAGNESIUM, DISSOLVED

(MG/L AS MG)

6

99999.00

99999.00

99999.00

99999.00

00930# SODIUM, DISSOLVED

(MG/L AS NA)

6

99999.00

99999.00

99999.00

99999.00

00935# POTASSIUM, DISSOLVED

(MG/L AS K)

6

5.00

0.10

1.00

3.92

0.26

0.40

1.00

2.51

5.76

9.46

00955# SILICA, DISSOLVED

(MG/L AS SiO2)

6

20.00

2.00

6.07

2.17

13.19

2.79

6.07

10.25

16.43

21.78

01006# ALUMINIUM (UG/L)

6

1000.00

10.00

130.77

4.94

645.11

26.51

44.48

130.77

384.45

1013.92

1810.80

01020# BORON, DISSOLVED

(UG/L AS B)

6

500.00

100.00

223.61

2.41

539.42

92.69

123.33

223.61

405.41

692.27

953.33

01040# COPPER, DISSOLVED

(UG/L AS CU)

6

10.00

0.10

1.92

5.96

0.32

0.57

1.92

6.41

18.94

36.22

01046# IRON, DISSOLVED

(UG/L AS FE)

6

500.00

10.00

46.42

4.78

221.59

9.72

16.14

46.42

133.51

345.25

609.38

01056# MANGANESE, DISSOLVED

(UG/L AS MN)

4

10.00

1.00

5.62

3.16

27.80

1.14

2.59

5.62

12.23

24.60

37.37

01060# MOLYBDENUM, DISS

(UG/L AS MO)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01075# SILVER, DISSOLVED

(UG/L AS AG)

2

<1.00

<1.00

<1.00

<1.00

<1.00

<1.00

<1.00

<1.00

01080# STRONTIUM, DISSOLVED

(UG/L AS SR)

6

500.00

100.00

130.77

1.93

252.09

67.83

83.92

130.77

203.75

303.60

385.38

01130# LITHIUM, DISSOLVED

(UG/L AS LI)

3

100.00

1.00

10.00

10.00

667.27

0.15

2.11

10.00

47.31

191.42

441.57

01150# TITANIUM, DISSOLVED

(UG/L AS TI)

5

10.00

1.00

3.58

3.53

16.97

0.93

1.70

3.98

9.55

20.05

31.70

H200ASA-2 CORE-HOLE CE 705A ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 110

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION

OF

NUMBER

AQUIFER U METHOD 2

ANALYSES

MAXIMUM MINIMUM MEAN STANDARD DEVIATION

09503 RADIUM (UG/L)

1 100.00 100.00

END OF CORE-HOLE CE 705A ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 110

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 705A
NUMBER OF ANALYSES

AQUIFER U METHOD 2

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	4	295.41	29.44	165.52	149.96	373.67	-42.63	64.29	165.52	266.74	357.77	412.21
00011#	TEMPERATURE, WATER (DEG. F)	6	58.60	53.60	56.42	1.75	58.17	54.67	55.23	56.42	57.60	58.66	59.30
00035*	CONDUCTIVITY (UMHOS AT 25 DEG C)	6	1980.00	1270.00	1418.88	1.18	1674.67	1202.16	1268.55	1418.88	1587.03	1755.18	1864.14
00400#	PH (STANDARD UNITS)	6	7.70	6.00	6.60	0.62	7.22	5.98	6.18	6.60	7.02	7.39	7.61
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	6	1170.00	370.00	531.28	1.49	792.55	356.14	405.47	531.28	696.13	887.63	1026.48
00440*	BICARBONATE ICN (MG/L AS HCO3)	6	600.00	420.00	548.70	1.14	626.78	480.36	501.53	548.70	600.31	650.85	683.08
00445*	CARBONATE ICN (MG/L AS CO3)	6	30.00	<0.10	0.26	10.26	2.65	0.03	0.05	0.26	1.25	5.12	11.92
00540*	DISSOLVED SOLIDS (POE AT 178 DEG C, M	6	1270.00	850.00	991.57	1.14	1132.10	868.48	906.62	991.57	1084.47	1175.42	1233.42
00681	CARBON, CPORGANIC, DISS (MG/L AS C)	1	4.00	4.00									
00720*	CYANIDE (MG/L AS CN)	6	<0.01	<0.01	<0.01	1.00							
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	6	660.00	420.00	463.55	1.19	551.47	389.64	412.22	463.55	521.27	575.28	617.02
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	6	115.00	30.00	65.20	1.65	107.65	39.49	46.47	65.20	91.49	124.08	148.87
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	6	92.00	35.00	67.02	1.42	95.31	47.12	52.82	67.02	85.02	105.31	119.68
00930*	SODIUM, DISSOLVED (MG/L AS Na)	6	230.00	160.00	197.59	1.15	227.19	171.84	179.80	197.59	217.13	236.35	248.65
00940*	CHLORIDE, DISSOLVED (MG/L AS Cl)	6	240.00	<1.00	5.63	7.66	43.01	0.74	1.42	5.63	22.24	76.53	160.24
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	6	335.00	250.00	301.94	1.11	335.85	271.45	280.99	301.94	324.46	346.13	359.78
00950*	FLUORIDE, TOTAL (MG/L AS F)	6	3.60	0.78	1.28	1.87	2.38	0.68	0.84	1.28	1.95	2.85	3.57

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CCRE-HOLE CE 705A

AQUIFER U METHOD 2

2

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NUMBER OF ANALYSES

STANDARD DEVIATION

WET SAMPLES

95% CONFIDENCE LIMITS ON MEAN

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES	95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
00955* SILICA, DISSOLVED (MG/L AS SIO2)	6 45.00	28.00	35.50	1.27	44.97	28.03	30.26 35.50 41.65 48.09 52.40
01000* ARSENIC, DISSOLVED (UG/L AS AS)	6 <10.00	<10.00	<10.00	1.00			
01005* BARIUM, DISSOLVED (UG/L AS BA)	6 <1000.00	<1000.00	<1000.00	1.00			
01020* BORON, DISSOLVED (UG/L AS B)	6 4199.98	100.00	388.29	4.04	1564.66	96.36	151.42 388.29 995.69 2322.17 3853.26
01025* CADMIUM, DISSOLVED (UG/L AS CD)	6 <10.00	<10.00	<10.00	1.00			
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	6 <10.00	<10.00	<10.00	1.00			
01040* COPPER, DISSOLVED (UG/L AS CU)	6 40.00	<10.00	12.60	1.76	22.18	7.16	8.60 12.60 18.46 26.03 31.96
01046* IRON, DISSOLVED (UG/L AS FE)	6 190.00	50.00	64.39	1.71	109.89	37.73	44.87 64.39 92.40 127.86 155.27
01049* LEAD, DISSOLVED (UG/L AS PB)	6 40.00	<10.00	18.17	1.94	35.23	9.37	11.62 18.17 28.42 42.49 54.05
01050* MANGANESE, DISSOLVED (UG/L AS MN)	6 110.00	<10.00	47.54	2.27	107.61	21.01	27.38 47.54 82.57 135.63 182.50
01065* NICKEL, DISSOLVED (UG/L AS NI)	6 40.00	<10.00	16.98	1.86	31.57	9.14	11.17 16.98 25.82 37.63 47.14
01075* SILVER, DISSOLVED (UG/L AS AG)	6 70.00	<10.00	21.72	2.44	52.92	8.91	11.90 21.72 39.65 68.11 94.14
01090* ZINC, DISSOLVED (UG/L AS ZN)	6 150.00	<10.00	20.54	3.21	65.93	6.40	9.34 20.54 45.17 91.75 140.18
01106* ALUMINUM, DISSOLVED (UG/L AS AL)	5 550.00	<100.00	192.53	2.22	481.38	77.00	112.42 192.53 329.72 534.87 714.33
01145* SELENIUM, DISSOLVED (UG/L AS SE)	6 <100.00	<10.00	<14.68	2.56			
01503* GROSS ALPHA, DISSOLVED (PC/L)	4 2.80	1.00	1.64	1.78	3.64	0.74	1.12 1.64 2.42 3.43 4.22
70507* PHOSPHORUS, TOTAL CRTHO (MG/L AS P)	6 0.43	<0.10	0.15	1.82	0.27	0.08	0.10 0.15 0.22 0.32 0.40

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CORE-HOLE CE 705A
NUMBER
CF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 27.88 27.88

00011# TEMPERATURE, WATER
(DEG. F)

1 50.00 50.00

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

1 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 99999.00 99999.00

C0930 SODIUM, DISSOLVED
(MG/L AS NA)

1 5.00 5.00

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

1 2.00 2.00

00955 SILICA, DISSOLVED
(MG/L AS SI02)

1 2.00 2.00

01006 ALUMINIUM (UG/L)

1 500.00 500.00

01020 BORON, DISSOLVED
(UG/L AS B)

1 500.00 500.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 1.00 1.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 20.00 20.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 1.00 1.00

01060 MOLYBDENUM, DISS
(UG/L AS MO)

1 10.00 10.00

01080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1 100.00 100.00

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1 1.00 1.00

01130 LITHIUM, DISSOLVED
(UG/L AS LI)

1 1.00 1.00

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 10.00 10.00

END CF CORE-HOLE CE 705A AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 04/25/75 THRU 04/25/75

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
 DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

* -- ESTIMATE USING METHOD OF MOMENTS
 # -- NC LCG TRANSFORM
 VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 7C5A
NUMBER
CF

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE
LIMITS ON MEAN

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

C0003# SAMPLE DEPTH, FEET

1 27.88 27.88

C0011# TEMPERATURE, WATER
(DEG. F)

1 50.00 50.00

C0095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 1120.00 1120.00

C0400# PH (STANDARD UNITS)

1 6.40 6.40

C0410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 310.00 310.00

C0440 BICARBONATE ION
(MG/L AS HCO3)

1 340.00 340.00

C0445 CARBONATE ION (MG/L
AS CO3)

1 36.00 36.00

C0540 DISSOLVED SOLIDS
(PCE AT 178 DEG C, M)

1 730.00 730.00

C0681 CARBON, ORGANIC,
DISS (MG/L AS C)

1 4.00 4.00

C0720 CYANIDE (MG/L AS CN)

1 <0.01 <0.01

C0900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1 325.00 325.00

C0915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1 38.00 38.00

C0925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 56.00 56.00

C0930 SODIUM, DISSOLVED
(MG/L AS Na)

1 150.00 150.00

C0940 CHLORIDE, DISSOLVED
(MG/L AS CL)

1 4.30 4.30

C0945 SULFATE, DISSOLVED
(MG/L AS SO4)

1 270.00 270.00

C0950 FLUORIDE, TOTAL
(MG/L AS F)

1 0.90 0.90

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CORE-HOLE CE 705A
NUMBER OF
ANALYSES

3

AQUIFER U METHOD

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

WET SAMPLES

95% CONFIDENCE
LIMITS ON MEAN

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00955 SILICA, DISSOLVED
(MG/L AS SI02)

1

9.40

9.40

01000 ARSENIC, DISSOLVED
(UG/L AS AS)

1

<10.00

<10.00

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1

<1000.00

<1000.00

01020 BORON, DISSOLVED
(UG/L AS B)

1

<100.00

<100.00

01025 CADMIUM, DISSOLVED
(UG/L AS CD)

1

<10.00

<10.00

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1

<10.00

<10.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1

40.00

40.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1

1400.00

1400.00

01049 LEAD, DISSOLVED
(UG/L AS PB)

1

100.00

100.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1

240.00

240.00

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

30.00

30.00

01075 SILVER, DISSOLVED
(UG/L AS AG)

1

80.00

80.00

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1

130.00

130.00

01145 SELENIUM, DISSOLVED
(UG/L AS SE)

1

<10.00

<10.00

01503 GPCSS ALPHA,
DISSOLVED (PC/L)

1

1.70

1.70

70507 PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

1

<0.10

<0.10

71846 NITROGEN, AMMONIA
DISS (MG/L AS NH4)

1

0.25

0.25

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

H20QASA-2 CORE-HOLE CE 705A AQUIFER U METHOD 3

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	1	0.15	0.15	
71890	MERCURY DISSOLVED (UG/L AS HG)	1	<10.00	<10.00	

END OF CORE-HOLE CE 705A AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 04/25/75 THRU 04/25/75

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-TOLE CE 706
NUMBER
OF

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

AQUIFER C METHOD 1

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 1313.00 1313.00

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 1410.00 1410.00

C0400# PH (STANDARD UNITS)

1 8.10 8.10

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 1300.00 1300.00

00440 BICARBONATE ION
(MG/L AS HCO3)

1 1500.00 1500.00

00445 CARBONATE ION (MG/L
AS CO3)

1 42.00 42.00

C0540 DISSOLVED SOLIDS
(POE AT 178 DEG C, M)

1 2249.95 2249.99

C0900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1 148.00 148.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1 22.00 22.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1 23.00 23.00

C0930 SODIUM, DISSOLVED
(MG/L AS Na)

1 640.00 640.00

C0940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1 80.00 80.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1 130.00 130.00

C0950 FLUORIDE, TOTAL
(MG/L AS F)

1 20.00 20.00

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 17.00 17.00

01046 IRON, DISSOLVED
(UG/L AS Fe)

1 <50.00 <50.00

01056 MANGANESE, DISSOLVED
(UG/L AS Mn)

1 <50.00 <50.00

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD WET SAMPLES THEORETICAL PROBABILITY OF BEING LESS
OF ANALYSES MAXIMUM MINIMUM MEAN DEVIATION LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	1	11.50	11.50				
END OF CORE-HOLE CE 706 ANALYSES MAXIMUM MINIMUM MEAN STANDARD WET SAMPLES REPORTING PERIOD IS 11/30/71 THRU 11/30/71								
* -- ESTIMATE USING METHOD OF MOMENTS								
# -- NC LCG TRANSFORM								
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS								

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CORE-HOLE CE 706
NUMBER OF ANALYSES

AQUIFER U METHOD 1

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MAXIMUM

MINIMUM

MEAN

00003# SAMPLE DEPTH, FEET

00935 POTASSIUM, DISSOLVED
(MG/L AS K)00955 SILICA, DISSOLVED
(MG/L AS SiO2)

01006 ALUMINIUM (UG/L)

01020 BORON, DISSOLVED
(UG/L AS B)01040 COPPER, DISSOLVED
(UG/L AS CU)01046 IRON, DISSOLVED
(UG/L AS FE)01056 MANGANESE, DISSOLVED
(UG/L AS MN)01060 MOLYBDENUM, DISS
(UG/L AS MO)01080 STRONTIUM, DISSOLVED
(UG/L AS SR)01085 VANADIUM, DISSOLVED
(UG/L AS V)01130 LITHIUM, DISSOLVED
(UG/L AS LI)01150 TITANIUM, DISSOLVED
(UG/L AS TI)

END OF CORE-HOLE CE 706 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/05/71 THRU 11/20/71

-- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CCRE-HOLE CE 706
NUMBER
OF

AQUIFER U METHOD 1

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

90%

95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	3	920.00	400.00	640.00	262.30	1121.87	158.13	462.95	640.00	817.05	976.27	1071.48
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	3	1390.00	1220.00	1277.69	1.08	1460.70	1117.56	1216.35	1277.69	1342.12	1402.83	1440.44
00400#	PH (STANDARD UNITS)	3	7.90	7.40	7.63	0.25	8.10	7.17	7.46	7.63	7.80	7.96	8.05
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	3	360.00	344.00	354.58	1.03	371.91	338.07	348.42	354.58	360.85	366.59	370.06
00440*	BICARBONATE ION (MG/L AS HCO3)	3	440.00	420.00	433.23	1.03	455.04	412.47	425.48	433.23	441.12	448.33	452.70
00445*	CARBONATE ION (MG/L AS CO3)	3	<0.10	<0.10	<0.10	1.00							
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	3	970.00	920.00	943.11	1.03	989.71	899.61	926.88	943.11	959.01	974.70	983.84
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	3	405.00	370.00	388.07	1.05	421.94	357.00	376.35	388.07	400.15	411.33	418.17
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	3	80.00	74.00	76.63	1.04	82.40	71.26	74.61	76.63	78.70	80.61	81.78
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	3	50.00	44.00	47.91	1.08	54.87	41.84	45.59	47.91	50.36	52.67	54.10
00930*	SODIUM, DISSOLVED (MG/L AS Na)	3	140.00	135.00	138.31	1.02	143.09	133.13	136.39	138.31	140.27	142.05	143.12
00940*	CHLORIDE, DISSOLVED (MG/L AS Cl)	3	50.00	21.00	37.44	1.65	93.97	14.92	26.70	37.44	52.51	71.16	85.35
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	3	275.00	260.00	268.26	1.03	282.53	254.71	263.20	268.26	273.42	278.14	281.00
00950*	FLUORIDE, TOTAL (MG/L AS F)	3	1.00	0.20	0.39	2.31	1.82	0.08	0.22	0.39	0.69	1.14	1.55
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	3	33.00	30.00	31.31	1.05	34.22	28.64	30.30	31.31	32.35	33.31	33.91
01046*	IRON, DISSOLVED (UG/L AS Fe)	3	<50.00	<50.00	<50.00	1.00							
01056*	MANGANESE, DISSOLVED (UG/L AS Mn)	3	<50.00	<50.00	<50.00	1.00							

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CORE-HOLE CE 706
NUMBER OF ANALYSES

AQUIFER U METHOD
1
MAXIMUM
MINIMUM
MEAN
STANDARD
DEVIATION

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3

3.50

1.20

1.76

1.82

5.27

0.59

1.18

1.76

2.63

3.78

4.70

END OF CORE-HOLE CE 706 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/05/71 THRU 11/20/71

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSECT

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

NUMBER OF ANALYSES

PARAMETER DESCRIPTION

MAXIMUM

MINIMUM

MEAN

STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES

55% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

00003# SAMPLE DEPTH, FEET

3 1311.00 1101.00 1207.00 105.01 1399.92 1014.08 1136.12 1207.00 1277.88 1341.63 1379.75

00011# TEMPERATURE, WATER (DEG. F)

3 57.00 51.00 55.00 3.46 61.36 48.64 52.66 55.00 57.34 59.44 60.70

00935 PCTASSIUM, DISSOLVED (MG/L AS K)

1 0.10 0.10 0.10

00955# SILICA, DISSOLVED (MG/L AS SiO2)

3 25.00 15.00 19.57 1.29 31.33 12.23 16.47 19.57 23.27 27.18 29.83

01006# ALUMINIUM (UG/L)

3 100.00 50.00 79.37 1.49 165.56 38.05 60.58 79.37 103.99 132.58 153.31

01020# BORON, DISSOLVED (UG/L AS B)

3 300.00 100.00 181.71 1.74 504.22 65.49 124.89 181.71 264.38 370.41 453.17

01040# COPPER, DISSOLVED (UG/L AS CU)

2 0.10 0.10 0.10 1.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10

01046# IRON, DISSOLVED (UG/L AS FE)

3 800.00 100.00 251.98 2.88 1762.53 36.03 123.31 251.98 514.94 979.20 1438.10

01060# MCLYBDENUM, DISS (UG/L AS MO)

2 5.00 5.00 5.00 1.00 5.02 4.98 4.99 5.00 5.01 5.01 5.01

01080# STRONTIUM, DISSOLVED (UG/L AS Sr)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01085# VANADIUM, DISSOLVED (UG/L AS V)

3 10.00 1.00 3.68 3.26 32.27 0.42 1.66 3.68 8.18 16.75 25.72

01130 LITHIUM, DISSOLVED (UG/L AS LI)

1 10.00 10.00

01150# TITANIUM, DISSOLVED (UG/L AS TI)

3 10.00 1.00 2.15 3.78 24.77 0.19 0.88 2.15 5.28 11.84 19.19

END OF CORE-POLE CE 707 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 08/11/72 THRU 08/13/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "55999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%
01056* MANGANESE, DISSOLVED (UG/L AS MN)	3	<50.00	<50.00	<50.00	1.00								
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	3	0.20	0.10	0.16	1.49	0.33	0.08	0.12	0.16	0.21	0.27	0.31	

END OF CORE-HOLE CE 707 ANALYSES MAXIMUM MINIMUM MEAN DEVIATION STANDARD 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 127

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "95999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 707

AQUIFER L METHOD 3

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

25%

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

NUMBER
OF

PARAMETER DESCRIPTION ANALYSES

00003# SAMPLE DEPTH, FEET

4	572.19	378.44	520.73	94.91	652.47	389.00	456.67	520.73	584.80	642.41	676.86
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00011# TEMPERATURE, WATER
(DEG. F)

4	62.20	59.20	60.77	1.26	62.52	59.03	59.92	60.77	61.63	62.39	62.85
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00915# CALCIUM, DISSOLVED
(MG/L AS CA)

3	99999.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
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00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

3	99999.00	0.10	0.71	15.90	3197.55	0.00	0.11	0.71	4.58	24.53	66.94
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00930 SODIUM, DISSOLVED
(MG/L AS NA)

3	99999.00	10.00									
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00935# POTASSIUM, DISSOLVED
(MG/L AS K)

3	1.00	0.01	0.22	14.28	28.49	0.00	0.04	0.22	1.30	6.51	17.09
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00935# SILICA, DISSOLVED
(MG/L AS SIO2)

3	5.00	2.00	3.68	1.70	9.74	1.39	2.58	3.68	5.27	7.26	8.80
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01006# ALUMINIUM (UG/L)

3	10.00	1.00	4.64	3.78	53.37	0.40	1.89	4.64	11.39	25.52	41.34
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01020# BORON, DISSOLVED
(UG/L AS B)

3	500.00	100.00	292.40	2.53	1611.92	53.04	156.17	292.40	547.49	962.33	1348.38
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01040# COPPER, DISSOLVED
(UG/L AS CU)

3	10.00	1.00	2.15	3.78	24.77	0.19	0.88	2.15	5.28	11.84	19.19
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01046# IRON, DISSOLVED
(UG/L AS FE)

3	100.00	10.00	27.14	3.26	237.78	3.10	12.23	27.14	60.25	123.42	189.50
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01049 LEAD, DISSOLVED
(UG/L AS PB)

1	10.00	10.00									
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01056# MANGANESE, DISSOLVED
(UG/L AS MN)

2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
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01060# MOLYBDENUM, DISS
(UG/L AS MO)

2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
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01130# LITHIUM, DISSOLVED
(UG/L AS LI)

2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04
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01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1	1.00	1.00									
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CORE-HOLE CE 707 NUMBER OF ANALYSES 3

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

STANDARD DEVIATION

UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

09503 RADIUM (UG/L)

1 50.00 90.00

END OF CORE-HOLE CE 707 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/14/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.9" ARE "MAJOR" CONCENTRATIONS

L-

H2CQASA-2		CCRE-HOLE CE 707		AQUIFER L METHOD 3		REPORT DATE 03/10/77		PAGE 130					
PARAMETER DESCRIPTION		NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
							UPPER	LOWER	25%	50%	75%	90%	95%
00003*	SAMPLE DEPTH, FEET	4	572.19	378.44	520.73	94.91	652.47	389.00	456.67	520.73	584.80	642.41	676.86
00011*	TEMPERATURE, WATER (DEG. F)	4	62.20	59.20	60.77	1.26	62.52	59.03	59.92	60.77	61.63	62.39	62.85
00055*	CONDUCTIVITY (UMHOS AT 25 DEG C)	4	1829.00	920.00	1281.94	1.37	1978.32	830.44	1037.93	1281.94	1583.31	1914.39	2144.58
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	15.00	12.00	13.42	1.17	21.68	8.30	12.06	13.42	14.52	16.42	17.39
00400*	PH (STANDARD UNITS)	4	7.60	6.60	7.05	0.44	7.67	6.43	6.75	7.05	7.35	7.62	7.78
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	4	1154.00	539.00	738.61	1.38	1155.01	472.33	594.28	738.61	918.00	1116.24	1254.69
00440*	BICARBONATE ICN (MG/L AS HCO3)	4	1320.00	610.00	823.34	1.41	1321.52	512.96	654.10	823.34	1036.37	1274.62	1442.53
00445*	CARBONATE ICN (MG/L AS CO3)	4	110.00	35.00	61.62	1.66	124.69	30.45	43.73	61.62	86.81	118.15	142.07
00540*	DISSOLVED SOLIDS (POE AT 178 DEG C, M)	4	1620.00	790.00	1025.53	1.37	1588.04	662.27	829.07	1025.53	1268.54	1555.88	1721.97
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.90	0.50									
00613*	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	2	0.50	<0.02	0.10	9.74	101.78	0.00	0.02	0.10	0.46	1.85	4.23
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	4	17.00	7.00	10.93	1.56	20.24	5.90	8.10	10.93	14.75	19.31	22.69
00720*	CYANIDE (MG/L AS CN)	4	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	1.30	0.30	0.62	2.82	14.64	0.03	0.31	0.62	1.26	2.36	3.44
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	3	92.00	84.00	89.25	1.05	98.28	81.05	86.15	89.25	92.47	95.46	97.29
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	4	15.00	4.90	7.57	1.70	15.43	3.52	5.15	7.37	10.56	14.58	17.69
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	4	18.00	13.00	16.36	1.17	20.30	13.18	14.73	16.36	18.17	19.97	21.13

H200ASA-2		CORE-HOLE CE 7C7	AQUIFER L METHOD 3	REPORT DATE 03/10/77		PAGE 131	
PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
C0930* SODIUM, DISSOLVED (MG/L AS NA)	4	650.00	285.00	412.31	1.41	661.27 257.07	327.68 412.31 518.79 637.84 721.72
O0935* POTASSIUM, DISSOLVED (MG/L AS K)	2	3.70	1.10	2.02	2.36	27.43 0.15	1.13 2.02 3.60 6.06 8.27
C0940* CHLORIDE, DISSOLVED (MG/L AS CL)	4	41.00	11.00	24.35	1.90	59.34 9.99	15.79 24.35 37.55 55.44 69.98
O0945* SULFATE, DISSOLVED (MG/L AS SO4)	4	125.00	80.00	97.20	1.23	129.05 73.20	84.68 97.20 111.56 126.29 136.01
C0950* FLUORIDE, TOTAL (MG/L AS F)	4	30.00	4.80	13.40	2.14	38.53 4.66	8.02 13.40 22.40 35.55 46.85
O0955* SILICA, DISSOLVED (MG/L AS SiO2)	4	60.00	6.00	13.95	2.78	57.74 3.37	6.99 13.95 27.84 51.80 75.10
O1000* ARSENIC, DISSOLVED (UG/L AS AS)	4	<10.00	<10.00	<10.00	1.00		
O1005* BARIUM, DISSOLVED (UG/L AS BA)	2	<1000.00	<1000.00	<1000.00	1.00		
C1020* BORON, DISSOLVED (UG/L AS B)	4	1500.00	100.00	482.06	3.26	2484.50 93.53	217.16 482.06 1070.09 2192.07 3365.88
O1025* CADMIUM, DISSOLVED (UG/L AS CD)	4	<10.00	<10.00	<10.00	1.00		
O1030* CHROMIUM, DISSOLVED (UG/L AS CR)	4	<10.00	<10.00	<10.00	1.00		
O1040* COPPER, DISSOLVED (UG/L AS CU)	4	<100.00	<100.00	<100.00	1.00		
O1046* IRON, DISSOLVED (UG/L AS FE)	4	5999.99	<50.00	523.32	10.55	13766.26 19.89	106.70 523.32 2566.50 10724.27 25220.30
O1049* LEAD, DISSOLVED (UG/L AS PB)	4	900.00	20.00	89.72	5.06	852.41 9.44	30.02 89.72 268.16 717.76 1293.26
O1056* MANGANESE, DISSOLVED (UG/L AS MN)	4	200.00	70.00	108.76	1.55	200.19 59.10	80.85 108.76 146.34 191.08 224.12
O1060* POLYBROMINE, DISS (UG/L AS MC)	1	<100.00	<100.00				
O1065* NICKEL, DISSOLVED (UG/L AS NI)	2	<10.00	<10.00	<10.00	1.00		

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CCRE-HOLE CE 707
NUMBER OF ANALYSES

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
						UPPER	LOWER	25%	50%	75%	90%	95%
01075* SILVER, DISSOLVED (UG/L AS AG)	2	<10.00	<10.00	<10.00	1.00							
01090 STRONTIUM, DISSOLVED (UG/L AS SR)	1	800.00	800.00									
01090* ZINC, DISSOLVED (UG/L AS ZN)	4	200.00	100.00	141.42	1.49	246.46	81.15	107.94	141.42	185.28	236.23	273.16
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	1	<100.00	<100.00									
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	200.00	100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72
01145* SELENIUM, DISSOLVED (UG/L AS SE)	4	<10.00	<10.00	<10.00	1.00							
01503* GROSS ALPHA, DISSOLVED (PC/L)	3	6.80	0.20	1.27	5.87	32.71	0.05	0.38	1.27	4.19	12.25	23.29
03501* GROSS BETA, DISSOLVED (PC/L)	2	15.00	4.00	7.75	2.55	133.08	0.45	4.12	7.75	14.56	25.67	36.04
32730* PFENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	4	<0.10	<0.10	<0.10	1.00							
71840* NITROGEN, AMMONIA DISS (MG/L AS NH4)	3	9.60	0.70	1.68	4.53	26.93	0.10	0.60	1.68	4.65	11.64	20.15
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	3	2.00	<0.10	0.34	4.80	6.10	0.02	0.12	0.34	0.99	2.55	4.51
71870 BROMIDE (MG/L)	1	<0.02	<0.02									
71890* MERCURY DISSOLVED (UG/L AS HG)	4	<2.00	<1.00	<1.41	1.49							

END OF CCRE-HOLE CE 707 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 07/14/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

H200ASA-2			CORE-HOLE CE 707			AQUIFER L METHOD 3A			REPORT DATE 03/10/77			PAGE 133		
PARAMETER DESCRIPTION			ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES						
			NUMBER CF					95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED						
								LIMITS ON MEAN						
								UPPER LOWER						
								25%	50%	75%	90%	95%		
CCCC3#	SAMPLE DEPTH, FEET	4	571.90	549.77	563.59	9.65	576.99	550.20	557.08	563.59	570.11	575.96	579.47	
00011#	TEMPERATURE, WATER (DEG. F)	4	59.40	55.60	57.57	1.60	53.79	55.36	56.50	57.57	58.65	59.62	60.20	
00915	CALCIUM, DISSOLVED (MG/L AS CA)	4	99999.00	99999.00										
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	4	99999.00	99999.00										
00930*	SODIUM, DISSOLVED (MG/L AS NA)	4	99999.00	5.00	7.94	1.49	16.56	3.81	6.06	7.94	10.40	13.26	15.33	
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	4	2.00	0.50	0.84	1.94	2.11	0.33	0.54	0.84	1.32	1.97	2.51	
00955*	SILICA, DISSOLVED (MG/L AS SIO2)	4	5.00	2.00	3.16	1.70	6.59	1.52	2.21	3.16	4.52	6.23	7.55	
01005	BARIUM, DISSOLVED (UG/L AS BA)	1	1.00	1.00										
01006*	ALUMINIUM (UG/L)	4	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
01020*	BORON, DISSOLVED (UG/L AS B)	4	500.00	100.00	334.37	2.24	1021.64	109.43	194.24	334.37	575.60	938.11	1256.35	
01040*	COPPER, DISSOLVED (UG/L AS CU)	4	10.00	1.00	5.62	3.16	27.80	1.14	2.59	5.62	12.23	24.60	37.37	
01046*	IRON, DISSOLVED (UG/L AS FE)	4	20.00	10.00	14.14	1.49	24.65	8.11	10.79	14.14	18.53	23.62	27.32	
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	10.00	10.00										
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	4	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	1.00	1.00										
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	4	100.00	1.00	10.00	6.55	135.92	0.74	2.81	10.00	35.57	111.36	220.36	

CORE-HOLE CE 707 AQUIFER L METHOD 3A

NUMBER OF ANALYSES MAXIMUM MINIMUM

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%
Q1150 TITANIUM, DISSOLVED (UG/L AS TI)	1	1.00	1.00									
09503* RADIUM (UG/L)	2	400.00	200.00	282.84	1.63	1256.66	63.66	203.17	282.84	393.75	530.19	633.44

END OF CORE-HOLE CE 707 AQUIFER L METHOD 3A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/31/75 THRU 06/10/75

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

H20QASA-2				CORE-HOLE CE 707				AQUIFER L METHOD 3A				REPORT DATE 03/10/77				PAGE 135																			
PARAMETER DESCRIPTION				ANALYSES				MAXIMUM				MINIMUM				MEAN				STANDARD DEVIATION				WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%							
																				00003# SAMPLE DEPTH, FEET				4	571.90	549.77	563.59	9.65	570.99	550.20	557.08	563.59	570.11	575.96	579.47
																				00011# TEMPERATURE, WATER (DEG. F)				4	59.40	55.60	57.57	1.60	59.79	55.36	56.50	57.57	58.65	59.62	60.20
																				00095# CONDUCTIVITY (UMHOS AT 25 DEG C)				4	830.00	760.00	806.48	1.04	853.97	761.64	784.35	806.48	829.20	850.24	863.06
																				00400# PH (STANDARD UNITS)				4	7.50	6.60	7.02	0.40	7.58	6.47	6.75	7.02	7.30	7.54	7.69
																				00410# ALKALINITY, TOTAL (MG/L AS CaCO3)				4	258.00	244.00	269.30	1.09	302.10	240.06	254.66	269.30	284.78	299.46	308.60
																				00440# BICARBONATE ION (MG/L AS HCO3)				4	315.00	240.00	269.71	1.13	319.54	227.65	248.37	269.71	292.89	315.43	329.74
																				00445# CARBONATE ION (MG/L AS CO3)				4	56.00	42.00	54.91	1.46	92.70	32.50	42.55	54.91	70.86	89.12	102.22
																				00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)				4	540.00	480.00	513.21	1.05	552.11	477.05	495.30	513.21	531.78	549.04	559.63
																				00681# CARBON, ORGANIC, DISS (MG/L AS C)				3	8.00	3.00	4.16	1.76	11.77	1.47	2.84	4.16	6.10	8.60	10.56
																				00720# CYANIDE (MG/L AS CN)				4	<0.01	<0.01	<0.01	1.00							
																				00900# HARDNESS, TOTAL (MG/L AS CaCO3)				4	115.00	100.00	106.05	1.07	116.88	96.23	101.15	106.05	111.19	116.02	119.01
																				00915# CALCIUM, DISSOLVED (MG/L AS Ca)				4	9.00	5.70	6.82	1.25	9.28	5.01	5.87	6.82	7.92	9.07	9.83
																				00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)				4	24.00	21.00	21.71	1.07	23.82	19.79	20.76	21.71	22.71	23.65	24.23
																				00930# SODIUM, DISSOLVED (MG/L AS Na)				4	180.00	145.00	159.42	1.10	182.54	139.23	149.26	159.42	170.28	180.67	187.18
																				00940# CHLORIDE, DISSOLVED (MG/L AS Cl)				4	5.50	<1.00	1.98	2.31	6.32	0.62	1.13	1.98	3.48	5.79	7.84
																				00945# SULFATE, DISSOLVED (MG/L AS SO4)				4	140.00	110.00	125.77	1.11	144.67	109.35	117.50	125.77	134.63	143.13	148.47
																				00950# FLUORIDE, TOTAL (MG/L AS F)				4	1.90	1.70	1.82	1.05	1.90	1.69	1.76	1.82	1.89	1.95	1.99

H200ASA-2

H2OQASA-2		CORE-HOLE CE 707		AQUIFER L METHOD 3A		REPORT DATE 03/10/77		PAGE 13					
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
		OF					UPPER	LOWER	25%	50%	75%	90%	95%
C0955*	SILICA, DISSOLVED (MG/L AS SI02)	4	3.30	0.50	1.17	2.33	3.78	0.36	0.66	1.17	2.07	3.46	4.70
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	4	<10.00	<10.00	<10.00	1.00							
O1005*	BARIUM, DISSOLVED (UG/L AS BA)	4	<1000.00	<1000.00	<1000.00	1.00							
O1020*	BORON, DISSOLVED (UG/L AS B)	4	3599.99	200.00	661.95	3.79	4210.59	104.06	269.19	661.95	1627.74	3655.78	5930.91
O1025*	CADMIUM, DISSOLVED (UG/L AS CD)	4	<10.00	<10.00	<10.00	1.00							
O1030*	CHROMIUM, DISSOLVED (UG/L AS CR)	4	<10.00	<10.00	<10.00	1.00							
O1040*	COPPER, DISSOLVED (UG/L AS CU)	4	<100.00	<10.00	<31.62	3.78							
O1046*	IRON, DISSOLVED (UG/L AS FE)	4	3269.99	<50.00	569.16	5.96	6786.07	47.74	170.52	569.16	1899.73	5615.86	10737.91
C1049*	LEAD, DISSOLVED (UG/L AS PB)	4	200.00	70.00	122.34	1.60	235.27	63.61	89.01	122.34	168.14	223.81	265.55
O1056*	MANGANESE, DISSOLVED (UG/L AS MN)	4	100.00	<50.00	75.21	1.34	112.77	50.16	61.77	75.21	91.59	109.33	121.55
O1065*	NICKEL, DISSOLVED (UG/L AS NI)	4	100.00	10.00	29.91	2.67	117.17	7.63	15.39	29.91	58.10	105.57	150.87
O1075*	SILVER, DISSOLVED (UG/L AS AG)	4	50.00	<10.00	14.95	2.24	45.69	4.89	8.69	14.95	25.74	41.95	56.19
O1090*	ZINC, DISSOLVED (UG/L AS ZN)	4	2199.99	10.00	160.28	9.48	3635.29	7.07	35.12	160.28	731.40	2864.24	6479.64
O1106	ALUMINUM, DISSOLVED (UG/L AS AL)	1	<100.00	<100.00									
O1145*	SELENIUM, DISSOLVED (UG/L AS SE)	4	<10.00	<10.00	<10.00	1.00							
O1503*	GROSS ALPHA, DISSOLVED (PC/L)	3	5.50	0.30	2.03	5.25	42.77	0.10	0.66	2.03	6.23	17.04	31.11
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	4	<0.10	<0.10	<0.10	1.00							

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM STANDARD DEVIATION MEAN

00003#	SAMPLE DEPTH, FEET	2	797.00	440.00	618.50	252.44	1386.59	-149.59	448.10	618.50	788.90	942.12	1033.76
00011#	TEMPERATURE, WATER (DEG. F)	2	55.00	50.00	52.50	3.54	63.26	41.74	50.11	52.50	54.89	57.03	58.32
00955*	SILICA, DISSOLVED (MG/L AS SIO2)	2	30.00	20.00	24.49	1.33	58.60	10.24	20.18	24.49	29.72	35.38	39.26
01006*	ALUMINIUM (UG/L)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01020*	BORON, DISSOLVED (UG/L AS B)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01035	COBALT, DISSOLVED (UG/L AS CO)	1	1.00	1.00									
01040	COPPER, DISSOLVED (UG/L AS CU)	1	0.10	0.10									
01046*	IRON, DISSOLVED (UG/L AS FE)	2	300.00	200.00	244.95	1.33	586.03	102.38	201.85	244.95	297.25	353.75	392.55
01060*	MOLYBDENUM, DISS (UG/L AS MO)	2	5.00	1.00	2.24	3.12	71.34	0.07	1.04	2.24	4.82	9.62	14.54
01075*	SILVER, DISSOLVED (UG/L AS AG)	2	0.50	0.10	0.22	3.12	7.13	0.01	0.10	0.22	0.48	0.96	1.45
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01085*	VANADIUM, DISSOLVED (UG/L AS V)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	50.00	50.00									
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04

END OF CCRE-HOLE CE 707 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 08/07/72 THRU 08/10/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
						UPPER	LOWER	25%	50%	75%		
00003# SAMPLE DEPTH, FEET	2	797.00	440.00	618.50	252.44	1386.59	-149.59	448.10	618.50	788.90	942.12	1033.76
00011# TEMPERATURE, WATER (DEG. F)	2	55.00	50.00	52.50	3.54	63.26	41.74	50.11	52.50	54.89	57.03	58.32
00095* CONDUCTIVITY (UMHOS AT 25 DEG C)	2	1425.00	1150.00	1280.13	1.16	2029.44	807.48	1155.74	1280.13	1417.52	1554.44	1642.29
00400# PH (STANDARD UNITS)	2	8.00	7.90	7.95	0.07	8.17	7.73	7.90	7.95	8.00	8.04	8.07
00410* ALKALINITY, TOTAL (MG/L AS CaCO3)	2	368.00	364.00	365.95	1.01	373.14	358.98	364.43	365.99	367.57	368.99	369.84
00440* BICARBONATE ION (MG/L AS HCO3)	2	450.00	445.00	447.49	1.01	456.23	438.91	445.57	447.49	449.42	451.15	452.20
00445* CARBONATE ION (MG/L AS CO3)	2	36.00	15.00	23.24	1.86	152.83	3.53	15.30	23.24	35.29	51.39	64.34
00540* DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	2	1015.00	1010.00	1012.49	1.00	1012.49	1012.49	1012.49	1012.49	1012.49	1012.49	1012.49
00900* HARDNESS, TOTAL (MG/L AS CaCO3)	2	508.00	246.00	353.51	1.67	1682.57	74.27	250.08	353.51	499.71	682.16	821.72
00915* CALCIUM, DISSOLVED (MG/L AS Ca)	2	66.00	80.00	82.95	1.05	96.88	71.01	80.14	82.95	85.85	88.56	90.21
00925* MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	71.00	11.00	27.95	3.74	1544.36	0.51	11.48	27.95	68.06	151.52	244.54
00930* SODIUM, DISSOLVED (MG/L AS Na)	2	266.00	149.00	199.08	1.51	692.74	57.21	150.97	199.08	262.52	336.67	390.67
00940* CHLORIDE, DISSOLVED (MG/L AS Cl)	2	27.00	20.00	23.24	1.24	44.32	12.18	20.14	23.24	26.82	30.50	32.94
00945* SULFATE, DISSOLVED (MG/L AS SO4)	2	380.00	360.00	369.86	1.04	415.40	329.32	360.46	369.86	379.51	388.41	393.83
00950* FLUORIDE, TOTAL (MG/L AS F)	2	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
00955* SILICA, DISSOLVED (MG/L AS SiO2)	2	37.00	27.00	31.61	1.25	62.25	16.05	27.19	31.61	36.74	42.06	45.60
01046* IRON, DISSOLVED (UG/L AS Fe)	2	400.00	300.00	346.41	1.23	643.27	186.54	301.96	346.41	397.39	449.62	484.08

H204ASA-2

CORE-HOLE CE 707 ANALYSES MAXIMUM MINIMUM 1

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01056*	MANGANESE, DISSOLVED (UG/L AS MN)	2	<50.00	<50.00	<50.00	1.00								
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	2	0.20	<0.10	0.14	1.63	0.63	0.03	0.10	0.14	0.20	0.27	0.32	

END OF CORE-HOLE CE 707 ANALYSES MAXIMUM MINIMUM 1 WET SAMPLES REPORTING PERIOD IS 08/07/72 THRU 08/10/72

* -- ESTIMATE USING METHOD OF MOMENTS
-- NO LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20ASA-2

H20JASA-2		CCRE-HOLE CE 707		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 14	
NUMBER OF ANALYSES		MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION	
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN	
SAMPLE DEPTH, FEET		8		267.14		242.22		259.38	
00003#	TEMPERATURE, WATER (DEG. F)	8	56.30	48.60	52.87	2.45	266.12	252.64	253.80
00915	CALCIUM, DISSOLVED (MG/L AS CA)	7	59999.00	99999.00	50.87	54.88	51.22	52.87	54.53
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	7	59999.00	99999.00	50.87	54.88	51.22	52.87	54.53
00930*	SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	2.00	5.41	1.81	9.79	2.99	3.62
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	7	1.00	0.01	0.27	6.12	1.35	0.05	0.08
00955*	SILICA, DISSOLVED (MG/L AS SI02)	7	10.00	2.00	4.25	1.77	7.10	2.54	2.88
01005*	BARIUM, DISSOLVED (UG/L AS BA)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01006*	ALUMINIUM (UG/L)	7	1000.00	10.00	90.57	3.88	304.09	26.98	36.29
01020*	BORON, DISSOLVED (UG/L AS B)	7	500.00	100.00	268.27	1.88	471.92	152.50	175.12
01040*	COPPER, DISSOLVED (UG/L AS CU)	7	10.00	1.00	3.73	3.42	11.20	1.24	1.62
01046*	IRON, DISSOLVED (UG/L AS FE)	7	100.00	10.00	26.83	2.91	69.76	10.32	13.04
01049*	LEAD, DISSOLVED (UG/L AS PB)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	6	200.00	1.00	5.21	8.28	43.02	0.63	1.25
01060*	MOLYBDENUM, DISS (UG/L AS MO)	6	10.00	1.00	2.15	3.28	7.07	0.66	0.97
01075*	SILVER, DISSOLVED (UG/L AS AG)	2	1.00	0.10	0.32	5.09	44.82	0.00	0.11
01090*	STRONTIUM, DISSOLVED (UG/L AS SR)	7	100.00	1.00	51.79	5.70	245.47	10.93	16.00

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H20245A-2		CCRE-HOLE CE 707		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 142					
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		SPECTROGRAPHIC SAMPLES					
								95% CONFIDENCE					
								LIMITS ON MEAN					
								THAN OR EQUAL TO VALUE LISTED					
								UPPER					
								25%					
								50%					
								75%					
								90%					
								95%					
01090*	ZINC, DISSOLVED (UG/L AS ZN)	4	10.00	1.00	3.16	3.78	20.02	0.50	1.29	3.16	7.76	17.38	28.17
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	4	10.00	1.00	1.78	3.16	8.79	0.36	0.82	1.78	3.87	7.78	11.82
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
C9503	RADIUM (UG/L)	1	100.00	100.00									
END OF CORE-HOLE CE 707 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/31/75 THRU 11/14/76													
* -- ESTIMATE USING METHOD OF MOMENTS													
# -- NC LCG TRANSFORM													
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS													

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CCRE-HOLE CE 707
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AQUIFER U METHOD 3

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PARAMETER DESCRIPTION ANALYSES

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
C0003# SAMPLE DEPTH, FEET					
00011# TEMPERATURE, WATER (DEG. F)	8 267.14	259.38	8.27	266.12 252.64	253.80 259.38 264.96 269.98 272.99
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	8 56.30	52.87	2.45	54.88 50.87	51.22 52.87 54.53 56.02 56.91
00340# CHEMICAL OXYGEN DEMAND, .25 N K2CR2O7	8 1560.00	1449.37	1.06	1521.13 1380.99	1392.52 1449.37 1508.53 1563.79 1597.80
00400# PH (STANDAPD UNITS)	2 84.00	40.99	2.76	898.62 1.87	20.66 40.99 81.31 150.53 217.58
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)	8 6.80	6.44	0.25	6.64 6.23	6.27 6.44 6.61 6.76 6.85
00440# BICARBONATE ION (MG/L AS HCO3)	8 575.00	503.82	1.16	566.91 447.75	456.93 503.82 555.51 606.52 639.23
00445# CARBONATE ION (MG/L AS CO3)	8 700.00	611.75	1.15	687.50 544.34	555.39 611.75 673.83 735.01 774.22
00540# DISSOLVED SOLIDS (DOE AT 178 DEG C, M)	8 24.00	0.20	6.94	0.96 0.04	0.05 0.20 0.73 2.38 4.81
00608 NITROGEN, AMMONIA, DISSOLVED(MG/L AS N)	8 1420.00	1072.28	1.17	1217.35 944.49	965.34 1072.28 1191.06 1309.07 1385.15
00613# NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	1 0.20				
00681# CARBON, ORGANIC, DISS (MG/L AS C)	2 0.60	0.11	11.08	165.05 0.00	0.02 0.11 0.56 2.39 5.72
00720# CYANIDE (MG/L AS CN)	7 14.00	7.56	1.53	11.03 5.18	5.68 7.56 10.06 13.00 15.16
00746# SULFIDE, DISSOLVED (MG/L AS S)	8 0.10	0.01	2.26	0.03 0.01	0.01 0.01 0.02 0.04 0.05
00900# HARDNESS, TOTAL (MG/L AS CaCO3)	2 0.60	0.55	1.14	0.81 0.37	0.50 0.55 0.60 0.65 0.68
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	7 670.00	531.67	1.21	631.84 447.38	466.70 531.67 605.69 691.02 730.47
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	8 185.00	125.10	1.53	177.13 88.36	93.81 125.10 166.84 216.15 252.35
	8 96.00	38.18	2.20	72.50 20.06	22.42 38.18 64.99 104.87 139.60

CONE-HOLE CE 707			AQUIFER U METHOD		3							
CF		NUMBER										
PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
						UPPER	LOWER	25%	50%	75%	90%	95%
C0930* SODIUM, DISSOLVED (MG/L AS NA)	8	290.00	155.00	199.16	1.27	242.09	163.85	169.45	199.16	234.09	270.70	295.27
C0935* POTASSIUM, DISSOLVED (MG/L AS K)	2	3.70	1.90	2.65	1.60	11.12	0.63	1.93	2.65	3.64	4.85	5.76
C0940* CHLORIDE, DISSOLVED (MG/L AS CL)	8	41.00	6.90	14.29	1.71	22.12	9.23	9.95	14.29	20.52	28.40	34.50
C0945* SULFATE, DISSOLVED (MG/L AS SO4)	8	385.00	310.00	347.95	1.08	369.21	327.91	331.27	347.95	365.46	381.96	392.18
C0950* FLUORIDE, TOTAL (MG/L AS F)	8	3.70	0.10	0.21	3.42	0.58	0.08	0.09	0.21	0.49	1.03	1.62
C0955* SILICA, DISSOLVED (MG/L AS SiO2)	8	57.00	27.00	48.27	1.28	58.92	39.55	40.93	48.27	56.94	66.05	72.18
C1000* ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
C1005* BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
C1020* BORON, DISSOLVED (UG/L AS B)	8	1700.00	200.00	448.32	2.23	860.99	233.44	261.18	448.32	769.53	1250.92	1672.69
C1025* CADMIUM, DISSOLVED (UG/L AS CD)	8	<10.00	<10.00	<10.00	1.00							
C1030* CHROMIUM, DISSOLVED (UG/L AS CR)	8	<10.00	<10.00	<10.00	1.00							
C1040* COPPER, DISSOLVED (UG/L AS CU)	8	<100.00	<10.00	<56.23	2.90							
C1046* IRON, DISSOLVED (UG/L AS FE)	8	10999.97	<50.00	1016.38	13.11	8286.23	124.67	178.88	1016.38	5774.67	27543.69	70108.31
C1049* LEAD, DISSOLVED (UG/L AS PB)	8	400.00	20.00	88.81	3.01	217.99	36.18	42.23	88.81	186.78	364.47	543.60
C1056* MANGANESE, DISSOLVED (UG/L AS MN)	8	400.00	<50.00	112.93	1.97	195.89	65.11	71.58	112.93	178.18	268.49	343.10
C1060* GLYCEROL, DISS (UG/L AS NO)	1	<100.00	<100.00									
C1065* NICKEL, DISSOLVED (UG/L AS NI)	6	30.00	10.00	18.17	1.64	29.85	11.06	12.99	18.17	25.41	34.36	41.15

H20QASA-2		CORE-HOLE CE 707	AQUIFER U METHOD	3	REPORT DATE 03/10/77		PAGE 14	
PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
01075*	SILVER, DISSOLVED (UG/L AS AG)	6	100.00	<10.00	14.68	2.56	37.54 5.74	7.78 14.68 27.68 48.98 68.90
01090	STRONTIUM, DISSOLVED (UG/L AS SR)	1	4399.58	4399.58				
01090*	ZINC, DISSOLVED (UG/L AS ZN)	8	500.00	<10.00	81.78	3.82	243.74 27.44	33.11 81.78 201.98 455.45 740.66
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	<100.00	<100.00	<100.00	1.00		
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00		
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00		
01503*	GROSS ALPHA, DISSOLVED (PC/L)	6	8.90	0.70	2.93	2.52	7.38 1.17	1.57 2.93 5.47 9.58 13.40
32730*	PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00		
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	8	<0.10	<0.10	<0.10	1.00		
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	1.00	0.12	0.26	1.95	0.48 0.14	0.17 0.26 0.41 0.62 0.79
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	7	6.50	<0.10	0.80	4.73	3.22 0.20	0.28 0.80 2.29 5.89 10.36
71870	BROMIDE (MG/L)	1	<0.02	<0.02				
71890*	MERCURY DISSOLVED (UG/L AS HG)	8	<10.00	<1.00	<3.76	2.94		

END OF CORE-HOLE CE 707 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/31/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99995.0" ARE "MAJOR" CONCENTRATIONS

P-20QASA-2			CORE-HOLE CE 708			AQUIFER C METHOD		1	REPORT DATE 03/10/77					PAGE					
NUMBER			ANALYSES			MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		SPECTROGRAPHIC SAMPLES		THEORETICAL PROBABILITY OF BEING LESS			
PARAMETER DESCRIPTION			ANALYSES			MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		LIMITS ON MEAN		THAN OR EQUAL TO VALUE LISTED			
														UPPER		25% 50% 75% 90% 95%			
CC003#			SAMPLE DEPTH, FEET			3		1301.00		875.00		1066.23		216.28		1463.67 669.00 920.34 1066.33 1212.32 1343.60 1422.11			
00011#			TEMPERATURE, WATER (DEG. F)			3		65.00		57.00		61.67		4.16		69.32 54.02 58.86 61.67 64.48 67.00 68.52			
00935*			POTASSIUM, DISSOLVED (MG/L AS K)			2		0.10		0.10		0.10		1.00		0.10 0.10 0.10 0.10 0.10 0.10 0.10			
00955*			SILICA, DISSOLVED (MG/L AS SI02)			3		25.00		20.00		23.21		1.14		29.41 18.32 21.27 23.21 25.32 27.38 28.69			
01006*			ALUMINIUM (UG/L)			3		500.00		500.00		500.00		1.01		504.79 495.25 498.25 500.00 501.75 503.34 504.29			
01020*			BORON, DISSOLVED (UG/L AS B)			3		100.00		50.00		79.37		1.49		165.56 38.05 60.58 79.37 103.99 132.58 153.31			
01040*			COPPER, DISSOLVED (UG/L AS CU)			3		1.00		1.00		1.00		1.00		1.00 1.00 1.00 1.00 1.00 1.00 1.00			
01046*			IRON, DISSOLVED (UG/L AS FE)			3		200.00		50.00		125.55		2.23		548.19 28.96 73.40 125.99 216.26 351.53 470.05			
01049*			LEAD, DISSOLVED (UG/L AS PB)			3		10.00		5.00		7.94		1.49		16.56 3.81 6.06 7.94 10.40 13.26 15.33			
01060*			MCLYBDENUM, DISS (UG/L AS M3)			3		5.00		1.00		1.71		2.53		9.43 0.31 0.91 1.71 3.20 5.63 7.89			
01090*			STRONTIUM, DISSOLVED (UG/L AS SR)			3		500.00		100.00		171.00		2.53		942.68 31.02 91.33 171.00 320.17 562.78 788.55			
01085			VANADIUM, DISSOLVED (UG/L AS V)			1		1.00		1.00									
01130*			LITHIUM, DISSOLVED (UG/L AS LI)			2		10.00		10.00		10.00		1.00		10.07 9.93 9.98 10.00 10.02 10.03 10.04			
01150*			TITANIUM, DISSOLVED (UG/L AS TI)			3		5.00		1.00		1.71		2.53		9.43 0.31 0.91 1.71 3.20 5.63 7.89			
END OF CORE-HOLE CE 708															AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/28/72 THRU 07/30/72				

* -- ESTIMATE USING METHOD OF MOMENTS

NC LOG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H20JASA-2		CCRE-HOLE CE 708		AQUIFER C METHOD 1		REPORT DATE 03/10/77		PAGE 147					
PARAMETER DESCRIPTION ANALYSES		NUMBER OF	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
								25%	50%				
								75%	90%				
									95%				
00003#	SAMPLE DEPTH, FEET	3	1301.00	875.00	1066.33	216.28	1463.67	669.00	920.34	1066.33	1212.32	1343.60	1422.11
00011#	TEMPERATURE, WATER (DEG. F)	3	65.00	57.00	61.67	4.16	69.32	54.02	58.86	61.67	64.48	67.00	68.52
00095#	CONDUCTIVITY (UMHCS AT 25 DEG C)	3	2399.99	1180.00	1739.94	1.43	3368.60	898.71	1364.94	1739.94	2217.96	2759.00	3143.77
00400#	PH (STANDARD UNITS)	3	8.10	7.70	7.90	0.20	8.27	7.53	7.77	7.90	8.03	8.16	8.23
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)	3	1260.00	439.00	789.01	1.71	2115.92	294.21	549.12	789.01	1133.68	1570.52	1908.51
00440#	BICARBONATE ION (MG/L AS HCO3)	3	1420.00	530.00	924.52	1.66	2337.59	365.65	657.51	924.52	1299.97	1766.19	2121.48
00445#	CARBONATE ION (MG/L AS CO3)	3	57.00	<0.10	4.41	28.38	2057.02	0.01	0.46	4.41	42.14	321.12	1081.65
00540#	DISSOLVED SOLIDS (PCE AT 175 DEG C, M	3	1879.99	1060.00	1446.89	1.34	2463.05	849.95	1190.00	1446.89	1759.23	2057.29	2329.76
00600#	HARDNESS, TOTAL (MG/L AS CaCO3)	3	426.00	94.00	199.40	2.13	799.08	49.76	119.74	199.40	332.07	525.32	691.10
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)	3	88.00	16.00	36.66	2.35	175.81	7.65	20.61	36.66	65.22	109.48	149.23
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)	3	50.00	13.00	25.99	1.96	89.70	7.53	16.48	25.99	40.97	61.69	78.80
00930#	SODIUM, DISSOLVED (MG/L AS Na)	3	560.00	175.00	352.08	1.87	1107.16	111.96	231.11	352.08	536.36	783.18	982.14
00940#	CHLORIDE, DISSOLVED (MG/L AS Cl)	3	30.00	13.00	20.47	1.53	44.51	9.42	15.39	20.47	27.23	35.20	41.04
00945#	SULFATE, DISSOLVED (MG/L AS SO4)	3	345.00	70.00	169.04	2.25	749.58	38.12	97.80	169.04	292.17	477.92	641.46
00950#	FLUORIDE, TOTAL (MG/L AS F)	3	30.00	2.00	9.86	4.13	133.32	0.73	3.79	9.86	25.68	60.70	101.54
00955#	SILICA, DISSOLVED (MG/L AS SiO2)	3	20.00	12.00	19.31	1.58	44.89	8.31	14.16	19.31	26.33	34.79	41.10
01046#	IRON, DISSOLVED (UG/L AS Fe)	3	300.00	100.00	181.71	1.74	504.22	65.49	124.89	181.71	264.38	370.41	453.17

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CORE-HOLE CE 708
NUMBER OF ANALYSES

AQUIFER C METHOD 1

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

01056* MANGANESE, DISSOLVED
(UG/L AS MN) 3 <200.00 <50.00 <79.37 2.23

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3) 3 1.10 0.20 0.48 2.35

1.95

1.43

0.85

0.48

0.27

0.10

2.30

2.35

END OF CORE-HOLE CE 708 AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 07/28/72 THRU 07/30/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 708
NUMBER
OF
ANALYSES

AQUIFER L METHOD 3

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR
EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

50% 75% 90% 95%

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION

ANALYSES

PARAMETER DESCRIPTION

CC003# SAMPLE DEPTH, FEET

8 309.09 280.08 296.58 8.25 303.30 289.85 291.01 296.58 302.15 307.16 310.15

00011# TEMPERATURE, WATER
(DEG. F)

8 59.90 54.50 57.06 1.49 58.28 55.85 56.05 57.06 58.07 58.98 59.52

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

7 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

6 99999.00 99999.00

C0930# SODIUM, DISSOLVED
(MG/L AS NA)

7 99999.00 2.00 6.81 1.94 13.19 3.52 4.36 6.81 10.65 15.91 20.22

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

7 5.00 0.01 0.52 8.20 3.40 0.08 0.13 0.52 2.14 7.68 16.49

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

7 5.00 2.00 2.96 1.63 4.59 1.91 2.13 2.96 4.12 5.55 6.63

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1 10.00 10.00

01006# ALUMINIUM (UG/L)

7 1000.00 10.00 59.04 6.88 331.22 10.52 16.05 59.04 217.13 700.36 1410.83

01020# BORON, DISSOLVED
(UG/L AS B)

7 500.00 100.00 305.79 1.93 549.32 170.22 196.47 305.79 475.91 708.41 898.67

01040# COPPER, DISSOLVED
(UG/L AS CU)

7 10.00 1.00 4.69 2.96 12.38 1.78 2.25 4.69 9.76 18.87 27.99

01046# IRON, DISSOLVED
(UG/L AS FE)

7 100.00 10.00 24.30 2.59 56.94 10.37 12.77 24.30 46.22 82.41 116.46

01049 LEAD, DISSOLVED
(UG/L AS PB)

1 20.00 20.00

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

6 10.00 1.00 3.68 2.88 10.59 1.28 1.81 3.68 7.52 14.28 20.95

01060# MOLYBDENUM, DISS
(UG/L AS MO)

4 10.00 1.00 3.16 3.78 20.02 0.50 1.29 3.16 7.76 17.38 28.17

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

7 100.00 10.00 71.97 2.39 156.67 33.06 40.00 71.97 129.50 219.62 301.22

01090# ZINC, DISSOLVED
(UG/L AS ZN)

5 10.00 1.00 2.51 3.53 10.71 0.59 1.07 2.51 5.88 12.65 20.00

H20QASA-2 CORE-HOLE CE 708 NUMBER OF ANALYSES 3

AQUIFER L METHOD 3

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

01130* LITHIUM, DISSOLVED (UG/L AS LI) 5 10.00 1.00 3.98 3.53 16.97 0.93 1.70 3.98 9.53 20.05 31.70

01150* TITANIUM, DISSOLVED (UG/L AS TI) 4 10.00 1.00 2.66 3.20 13.38 0.53 1.21 2.66 5.83 11.83 18.05

END OF CORE-HOLE CE 708 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/23/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 708

AQUIFER L METHOD 3

NUMBER

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WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003*	SAMPLE DEPTH, FEET	8	309.09	280.08	296.58	8.25	303.30	289.85	291.01	296.58	302.15	307.16	310.15
00011*	TEMPERATURE, WATER (DEG. F)	8	59.90	54.50	57.06	1.49	58.28	55.85	56.05	57.06	58.07	58.98	59.52
00005*	CONDUCTIVITY (UMHOS AT 25 DEG C)	8	1160.00	940.00	1039.09	1.07	1097.40	983.88	993.17	1039.09	1087.14	1132.24	1160.10
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	18.00	9.90	13.35	1.53	48.31	3.69	10.04	13.35	17.76	22.95	26.76
00400*	PH (STANDARD UNITS)	8	7.30	6.00	6.80	0.40	7.13	6.47	6.53	6.80	7.07	7.32	7.46
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	8	669.00	374.00	466.84	1.34	582.61	367.76	383.17	466.84	568.77	679.32	755.45
00440*	BICARBONATE ION (MG/L AS HCO3)	8	670.00	370.00	463.73	1.21	540.51	397.95	408.48	463.73	526.45	590.06	631.72
00445*	CARBONATE ION (MG/L AS CO3)	8	78.00	<0.10	20.55	9.08	124.15	3.40	4.64	20.55	91.11	347.62	774.25
00540*	DISSOLVED SOLIDS (RCE AT 178 DEG C, M)	8	775.00	540.00	685.30	1.13	754.96	622.07	632.52	685.30	742.49	797.98	833.13
00608	NITROGEN, AMMONIA, DISSOLVED(MG/L AS N)	1	0.50	0.50									
00613*	NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	2	0.40	<0.02	0.09	8.32	56.33	0.00	0.02	0.09	0.37	1.35	2.92
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	7	10.00	3.00	6.24	1.54	9.21	4.24	4.66	6.24	8.37	10.89	12.75
00720*	CYANIDE (MG/L AS CN)	8	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	2.80	0.60	1.30	2.97	35.65	0.05	0.62	1.30	2.70	5.24	7.78
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	7	210.00	92.00	135.13	1.35	176.68	103.35	110.37	135.13	165.45	198.48	221.31
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	8	37.00	6.60	18.88	1.69	28.90	12.33	13.27	18.88	26.86	36.88	44.58
00925*	MAGNESIUM, DISSOLVED (MG/L AS MG)	8	33.00	8.70	17.58	1.50	24.45	12.64	13.38	17.58	23.10	29.54	34.21

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CORE-HOLE CE 708

AQUIFER L METHOD 3

NUMBER

CF

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

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C0930* SODIUM, DISSOLVED

(MG/L AS NA)

8 340.00 180.00 229.56 1.20 266.21 197.95 203.06 229.56 259.51 289.76 309.52

C0935* POTASSIUM, DISSOLVED

(MG/L AS K)

2 3.30 <1.00 1.82 2.33 23.70 0.14 1.03 1.82 3.21 5.36 7.28

C0940* CHLORIDE, DISSOLVED

(MG/L AS CL)

8 41.00 5.60 10.60 1.87 17.63 6.37 6.95 10.60 16.16 23.60 29.61

C0945* SULFATE, DISSOLVED

(MG/L AS SO4)

8 190.00 55.00 113.56 1.59 166.12 77.67 82.92 113.59 155.60 206.50 244.59

C0950* FLUORIDE, TOTAL

(MG/L AS F)

8 20.00 1.80 3.93 2.07 7.11 2.17 2.40 3.93 6.42 9.98 13.00

C0955* SILICA, DISSOLVED

(MG/L AS SiO2)

8 16.00 11.00 13.19 1.11 14.35 12.12 12.30 13.19 14.14 15.06 15.63

C1000* ARSENIC, DISSOLVED

(UG/L AS AS)

8 <10.00 <10.00 <10.00 1.00

C1005* BARIUM, DISSOLVED

(UG/L AS BA)

6 <1000.00 <1000.00 <1000.00 1.00

C1020* BORON, DISSOLVED

(UG/L AS B)

8 1899.99 <10.00 268.93 4.73 955.40 75.70 94.15 268.93 768.16 1973.98 3471.12

C1025* CADMIUM, DISSOLVED

(UG/L AS CD)

8 <10.00 6.00 9.38 1.20 10.87 8.10 8.30 9.38 10.60 11.83 12.63

C1030* CHROMIUM, DISSOLVED

(UG/L AS CR)

8 <10.00 <10.00 <10.00 1.00

C1040* COPPER, DISSOLVED

(UG/L AS CU)

8 <100.00 <10.00 <61.32 2.52

C1046* IRON, DISSOLVED

(UG/L AS FE)

8 7799.98 60.00 1012.06 5.82 4257.02 240.61 308.08 1012.06 3324.66 5683.33 18366.75

C1049* LEAD, DISSOLVED

(UG/L AS PB)

8 600.00 4.00 56.49 4.94 207.83 15.35 19.21 56.49 166.10 438.10 782.47

C1056* MANGANESE, DISSOLVED

(UG/L AS MN)

8 120.00 50.00 65.30 1.39 85.55 49.95 52.22 65.30 81.66 95.84 112.60

C1060* MOLYBDENUM, DISS

(UG/L AS MO)

1 <100.00 <100.00

C1065* NICKEL, DISSOLVED

(UG/L AS NI)

6 30.00 <1.00 9.83 3.46 33.98 2.84 4.25 9.83 22.72 48.30 75.81

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STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

MEAN

MINIMUM

MAXIMUM

ANALYSES

01075* SILVER, DISSOLVED
(UG/L AS AG)

2.56

<6.81

<1.00

<10.00

6

01080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1200.00

1200.00

1

01090* ZINC, DISSOLVED
(UG/L AS ZN)

3.02

163.23

60.00

2059.99

8

01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

1.07

104.88

100.00

110.00

2

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

1.00

<100.00

<100.00

<100.00

2

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

1.00

<10.00

<10.00

<10.00

8

01503* GROSS ALPHA,
DISSOLVED (PC/L)

2.22

1.54

0.50

3.90

6

03501* GROSS BETA,
DISSOLVED (PC/L)

1.38

23.87

19.00

30.00

2

32730* PHENOLS (UG/L)

1.00

<1.00

<1.00

<1.00

2

70507* PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

1.00

<0.10

<0.10

<0.10

8

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

2.57

0.32

<0.10

2.00

7

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

2.99

0.26

<0.10

1.40

7

71870 BROMIDE (MG/L)

0.07

0.07

0.07

0.07

1

71890* MERCURY DISSOLVED
(UG/L AS HG)

2.96

2.82

1.00

<10.00

8

END OF CORE-HOLE CE 708 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/23/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20JASA-2

CORE-HOLE CE 708
NUMBER OF
ANALYSES

AQUIFER U METHOD 1

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

2 537.00 145.00 341.00 277.19 1184.39 -502.39 153.90 341.00 528.10 696.35 796.97

00011# TEMPERATURE, WATER
(DEG. F)

2 58.00 57.00 57.50 0.71 59.65 55.35 57.02 57.50 57.98 58.41 58.66

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

2 30.00 25.00 27.39 1.14 40.54 18.50 25.10 27.39 29.88 32.31 33.85

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1 10.00 10.00

01006# ALUMINIUM (UG/L)

2 500.00 50.00 158.11 5.09 22411.39 1.12 52.68 158.11 474.53 1274.91 2302.28

01020# BORON, DISSOLVED
(UG/L AS B)

2 50.00 50.00 50.00 1.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 1.00 1.00

01046# IRON, DISSOLVED
(UG/L AS FE)

2 800.00 100.00 282.84 4.35 24804.75 3.23 104.83 282.84 763.10 1862.95 3176.91

01049# LEAD, DISSOLVED
(UG/L AS PB)

2 30.00 10.00 17.32 2.17 184.11 1.63 10.25 17.32 29.26 46.89 62.16

01060 MOLYBDENUM, DISS
(UG/L AS MO)

1 1.00 1.00

01090# STRONTIUM, DISSOLVED
(UG/L AS SR)

2 500.00 500.00 500.00 1.00 500.00 500.00 500.00 500.00 500.00 500.00 500.00

01085# VANADIUM, DISSOLVED
(UG/L AS V)

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

01150# TITANIUM, DISSOLVED
(UG/L AS TI)

2 10.00 1.00 3.16 5.09 448.23 0.02 1.05 3.16 9.49 25.50 46.05

END OF CORE-HOLE CE 708 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/23/72 THRU 07/26/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2O-LAS-2		CCPE-HOLE CE 7C8		AQUIFER U METHOD 1		REPORT DATE 03/10/77		PAGE 155					
PARAMETER DESCRIPTION ANALYSES		MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%	
00003# SAMPLE DEPTH, FEET		2	537.00	145.00	341.00	277.19	1184.39	-502.39	153.90	341.00	528.10	696.35	796.97
00011# TEMPERATURE, WATER (DEG. F)		2	58.00	57.00	57.50	0.71	59.65	55.35	57.02	57.50	57.98	58.41	58.66
00095# CONDUCTIVITY (UMHQS AT 25 DEG C)		2	1150.00	1150.00	1150.00	1.00	1150.00	1150.00	1150.00	1150.00	1150.00	1150.00	1150.00
00400# PH (STANDARD UNITS)		2	8.10	8.00	8.05	0.07	8.27	7.83	8.00	8.05	8.10	8.14	8.17
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)		2	411.00	377.00	393.63	1.06	473.92	326.95	377.75	393.63	410.18	425.65	435.18
00440# BICARBONATE ION (MG/L AS HCO3)		2	470.00	430.00	449.55	1.06	544.48	371.18	430.85	449.55	469.07	497.35	498.61
00445# CARBONATE ION (MG/L AS CO3)		2	15.00	12.00	13.42	1.17	21.68	8.30	12.06	13.42	14.92	16.42	17.39
00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)		2	950.00	940.00	964.67	1.04	1078.10	863.18	941.17	964.67	988.76	1010.93	1024.43
00900# HARDNESS, TOTAL (MG/L AS CaCO3)		2	486.00	416.00	449.64	1.12	628.33	321.77	417.47	449.64	484.29	517.72	538.80
00915# CALCIUM, DISSOLVED (MG/L AS Ca)		2	96.00	84.00	89.80	1.10	119.68	67.38	84.26	89.80	95.71	101.35	104.89
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)		2	60.00	50.00	54.77	1.14	81.08	37.00	50.21	54.77	59.75	64.61	67.71
00930# SODIUM, DISSOLVED (MG/L AS Na)		2	160.00	140.00	149.67	1.10	199.42	112.32	140.43	149.67	159.51	168.91	174.79
00940# CHLORIDE, DISSOLVED (MG/L AS Cl)		2	22.00	18.00	19.90	1.15	30.64	12.92	18.08	19.90	21.90	23.87	25.13
00945# SULFATE, DISSOLVED (MG/L AS SO4)		2	350.00	345.00	347.49	1.01	357.13	338.11	345.39	347.49	349.61	351.52	352.67
00950# FLUORIDE, TOTAL (MG/L AS F)		2	0.20	0.20	0.20	1.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20
00955# SILICA, DISSOLVED (MG/L AS SiO2)		2	34.00	33.00	33.50	1.02	35.72	31.41	33.02	33.50	33.58	34.41	34.68
01046# IRON, DISSOLVED (UG/L AS FE)		2	200.00	100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72

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CF ANALYSES MAXIMUM MINIMUM

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

1.63

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

1.00

END OF CORE-HOLE CE 708

AQUIFER U METHOD

1

WET SAMPLES REPORTING PERIOD IS 07/23/72 THRU 07/26/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 708

AQUIFER U METHOD 3

NUMBER
CF

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

50%

75%

50%

25%

UPPER

LOWER

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

C0003# SAMPLE DEPTH, FEET

00011# TEMPERATURE, WATER

(DEG. F)

00915 CALCIUM, DISSOLVED

(MG/L AS CA)

00925 MAGNESIUM, DISSOLVED

(MG/L AS MG)

C0930# SODIUM, DISSOLVED

(MG/L AS NA)

00935# POTASSIUM, DISSOLVED

(MG/L AS K)

00955# SILICA, DISSOLVED

(MG/L AS SiO2)

01005# BARIUM, DISSOLVED

(UG/L AS BA)

01006# ALUMINIUM (UG/L)

01020# BOPCN, DISSOLVED

(UG/L AS B)

01040# COPPER, DISSOLVED

(UG/L AS CU)

01046# IRON, DISSOLVED

(UG/L AS FE)

01049# LEAD, DISSOLVED

(UG/L AS PE)

01056# MANGANESE, DISSOLVED

(UG/L AS MN)

01060# MOLYBDENUM, DISS

(UG/L AS MO)

01075# SILVER, DISSOLVED

(UG/L AS AG)

01080# STRONTIUM, DISSOLVED

(UG/L AS SR)

50.54

3.22

53.17

47.92

48.37

50.54

52.72

54.67

55.84

52.67

1.45

53.85

51.50

51.70

52.67

53.65

54.53

55.05

10.00

7.99999.00

7.99999.00

10.00

10.00

10.00

10.00

10.00

10.00

2.00

2.05

9.86

2.72

3.19

5.18

8.42

13.04

16.93

0.19

5.70

0.92

0.04

0.06

0.19

0.63

1.80

3.38

2.96

1.63

4.59

1.91

2.13

2.96

4.12

5.55

6.63

1.58

2.80

5.18

0.49

0.79

1.58

3.18

5.93

8.62

158.38

5.52

728.83

34.42

50.02

158.38

501.53

1414.02

2628.23

484.31

1.60

735.73

318.81

353.18

484.31

664.13

882.20

1045.47

10.00

1.76

16.56

6.03

6.82

10.00

14.65

20.66

25.37

276.96

2.89

715.76

107.17

135.22

276.96

567.28

1080.95

1569.50

4.47

8.32

2816.29

0.01

1.07

4.47

18.68

67.59

145.83

6.52

4.33

24.14

1.76

2.43

6.52

17.52

42.62

72.54

2.82

3.20

9.00

0.88

1.29

2.82

6.17

12.50

19.07

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

100.00

1.01

100.48

99.52

99.64

100.00

100.36

100.69

100.89

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CORE-HOLE CE 708			AQUIFER U METHOD 3		SPECTROGRAPHIC SAMPLES							REPORT DATE 03/10/77	PAGE 158
PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED		
							UPPER	LOWER	25%	50%	75%	90%	95%
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	1.00	1.00									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	4	10.00	1.00	1.78	3.16	8.79	0.36	0.82	1.78	3.87	7.78	11.82
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	5	10.00	1.00	2.51	3.53	10.71	0.59	1.07	2.51	5.88	12.65	20.00
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	6	20.00	1.00	4.14	3.37	13.90	1.23	1.82	4.14	9.38	19.60	30.45
END OF CORE-HOLE CE 708 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/23/75 THRU 11/12/76													
* -- ESTIMATE USING METHOD CF PMENTS													
# -- NC LOG TRANSFORM													
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS													

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

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CORE-HOLE CE 708
NUMBER OF ANALYSES

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

8

53.96

45.49

50.54

3.22

53.17

47.92

48.37

50.54

52.72

54.67

55.84

00011# TEMPERATURE, WATER
(DEG. F)

8

54.50

50.50

52.67

1.45

53.85

51.50

51.70

52.67

53.65

54.53

55.05

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

8

1430.00

1050.00

1290.03

1.12

1413.88

1177.02

1195.74

1290.03

1391.75

1490.06

1552.13

00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CR07

2

30.00

22.00

25.69

1.25

50.07

13.18

22.16

25.69

29.79

34.03

36.85

00400# PH (STANDARD UNITS)

8

6.90

6.10

6.56

0.32

6.83

6.30

6.34

6.56

6.78

6.98

7.10

00410# ALKALINITY, TOTAL
(MG/L AS CaCO3)

8

470.00

270.00

393.97

1.21

460.08

337.37

346.49

393.97

447.96

502.80

538.75

00440# BICARBONATE ION
(MG/L AS HCO3)

8

575.00

330.00

470.24

1.23

556.85

397.10

408.82

470.24

540.88

613.43

661.38

00445# CARBONATE ION (MG/L
AS CO3)

8

78.00

<0.10

0.23

10.53

1.57

0.03

0.05

0.23

1.13

4.70

11.05

00540# DISSOLVED SOLIDS
(ROE AT 175 DEG C, M)

8

1120.00

640.00

898.41

1.20

1040.27

775.89

795.71

898.41

1014.35

1131.34

1207.65

00608 NITROGEN, AMMONIA,
DISSOLVED (MG/L AS N)

1

0.20

0.20

00613# NITROGEN, NITRITE,
DISSOLVED (MG/L AS N)

2

0.60

<0.02

0.11

11.08

165.05

0.00

0.02

0.11

0.56

2.39

5.72

00681# CARBON, ORGANIC,
DISS (MG/L AS C)

7

20.00

4.00

9.19

1.88

16.19

5.22

5.99

9.19

14.09

20.70

26.05

00720# CYANIDE (MG/L AS CN)

8

<0.01

<0.01

<0.01

1.00

1.84

0.02

0.10

0.17

0.29

0.47

0.62

00740# SULFIDE, DISSOLVED
(MG/L AS S)

2

0.30

<0.10

0.17

2.17

1.84

0.02

0.10

0.17

0.29

0.47

0.62

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

7

520.00

320.00

421.30

1.21

500.06

354.93

370.15

421.30

479.51

538.70

577.53

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

8

150.00

35.00

70.19

1.76

111.32

44.26

47.91

70.19

102.83

144.96

178.00

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

8

82.00

29.00

50.96

1.40

67.24

38.62

40.51

50.96

64.11

78.80

89.16

H2O-ASA-2			CORE-HOLE CE 708		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 160				
PARAMETER DESCRIPTION		NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
							UPPER	LOWER	25%	50%	75%	90%	95%
C0930*	SODIUM, DISSOLVED (MG/L AS NA)	8	210.00	130.00	172.75	1.24	206.41	144.57	149.07	172.75	200.18	228.55	247.41
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	2.70	<1.00	1.64	2.02	13.92	0.19	1.02	1.64	2.64	4.04	5.22
00940*	CHLORIDE, DISSOLVED (MG/L AS CL)	6	55.00	8.50	14.41	1.76	22.39	9.07	9.83	14.41	21.14	25.84	36.66
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	8	410.00	250.00	308.40	1.17	350.21	271.75	277.74	308.49	342.65	376.58	398.46
C0950*	FLUORIDE, TOTAL (MG/L AS F)	8	3.60	0.20	0.44	2.50	0.93	0.21	0.24	0.44	0.81	1.42	1.98
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	6	48.00	4.70	24.30	2.25	47.02	12.56	14.07	24.30	41.97	68.61	92.05
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
01020*	BORON, DISSOLVED (UG/L AS B)	8	470.00	<10.00	198.46	3.53	555.20	70.94	84.68	198.46	465.13	1000.48	1581.75
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	8	<10.00	<1.00	<7.50	2.26							
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	6	<10.00	<10.00	<10.00	1.00							
01040*	COPPER, DISSOLVED (UG/L AS CU)	8	<100.00	<10.00	<64.51	2.37							
01046*	IRON, DISSOLVED (UG/L AS FE)	8	35999.95	200.00	3735.89	4.99	13844.77	1008.10	1262.98	3735.89	11050.75	29305.01	52509.01
01049*	LEAD, DISSOLVED (UG/L AS PB)	8	800.00	3.00	72.46	6.60	337.56	15.56	20.27	72.46	259.04	814.45	1615.79
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	8	1700.00	<10.00	121.50	4.30	399.14	36.98	45.38	121.50	325.27	788.55	1339.14
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
01065*	NICKEL, DISSOLVED (UG/L AS NI)	6	20.00	<1.00	9.63	3.19	30.72	3.02	4.40	9.63	21.09	42.66	65.01

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

50%

75%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

NUMBER
OF
ANALYSES

CORE-HOLE CE 708
AQUIFER U METHOD 3

H20JASA-2

PARAMETER DESCRIPTION

01075*	SILVER, DISSOLVED (UG/L AS AG)	6	<10.00	1.00	6.81	2.56	17.42	2.66	3.61	6.81	12.65	22.74	31.98
01080	STRONTIUM, DISSOLVED (UG/L AS SP)	1	3499.99	3499.99									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	8	800.00	40.00	137.53	2.39	279.80	67.00	76.39	137.53	247.61	420.16	576.43
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	1000.00	<100.00	316.23	5.09	44822.07	2.23	105.37	316.23	949.06	2549.81	4604.56
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	7	4.50	0.10	1.03	3.26	2.95	0.36	0.46	1.03	2.28	4.67	7.18
03501	GROSS BETA, DISSOLVED (PC/L)	1	2.00	2.00									
32730*	PFENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	6	<0.10	<0.10	<0.10	1.00							
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	0.85	0.20	0.29	1.73	0.47	0.18	0.20	0.29	0.42	0.58	0.71
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	7	0.50	<0.10	0.22	1.84	0.38	0.13	0.15	0.22	0.34	0.48	0.60
71870*	BROMIDE (MG/L)	2	0.30	0.06	0.13	3.12	4.28	0.00	0.06	0.13	0.29	0.58	0.87
71890*	MERCURY DISSOLVED (UG/L AS H-G)	8	<10.00	1.00	3.45	2.76	7.88	1.51	1.74	3.45	6.84	12.65	18.28

END OF CORE-HOLE CE 708 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/23/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2 CORE-HOLE CE 709 AQUIFER C METHOD 1

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 1259.00 1259.00

00011# TEMPERATURE, WATER
(DEG. F)

1 56.00 56.00

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

1 0.10 0.10

00955 SILICA, DISSOLVED
(MG/L AS SiO2)

1 15.00 15.00

01006 ALUMINIUM (UG/L)

1 100.00 100.00

01020 BORON, DISSOLVED
(UG/L AS B)

1 100.00 100.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 1.00 1.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 10.00 10.00

01049 LEAD, DISSOLVED
(UG/L AS PB)

1 100.00 100.00

01085 VANADIUM, DISSOLVED
(UG/L AS V)

1 10.00 10.00

01130 LITHIUM, DISSOLVED
(UG/L AS LI)

1 100.00 100.00

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 10.00 10.00

END OF CORE-HOLE CE 709 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 09/10/72 THRU 09/10/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE CE 709
NUMBER
CF

AQUIFER C METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1 1259.00 1259.00

00011# TEMPERATURE, WATER
(DEG. F)

1 56.00 56.00

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1 1120.00 1120.00

00400# PH (STANDARD UNITS)

1 7.80 7.80

00410 ALKALINITY, TOTAL
(MG/L AS CaCO_3)

1 409.00 409.00

00440 BICARBONATE ION
(MG/L AS HCO_3)

1 500.00 500.00

00445 CARBONATE ION (MG/L
AS CO_3)

1 <0.10 <0.10

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

1 877.00 877.00

00900 HARDNESS, TOTAL
(MG/L AS CaCO_3)

1 384.00 384.00

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

1 58.00 58.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 58.00 58.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

1 165.00 165.00

00940 CHLORIDE, DISSOLVED
(MG/L AS CL)

1 17.00 17.00

00945 SULFATE, DISSOLVED
(MG/L AS SO_4)

1 300.00 300.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1 1.60 1.60

00955 SILICA, DISSOLVED
(MG/L AS SiO_2)

1 20.00 20.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1 50.00 50.00

H20QASA-2 CCRE-HOLE CE 709 NUMBER OF ANALYSES 1 WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER REPORT DATE 03/10/77 PAGE 164

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01056 MANGANESE, DISSOLVED (UG/L AS MN) 1 <50.00 <50.00

71851 NITROGEN, NITRATE DISS (MG/L AS NO3) 1 0.20 0.20

END OF CORE-HOLE CE 709 WET SAMPLES REPORTING PERIOD IS 09/10/72 THRU 09/10/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2002SA-2

CORE-HOLE CE 709

AWUIFER L METHOD 3

NUMBER

OF

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

LIMITS ON MEAN

UPPER LOWER 25% 50% 75% 90% 95%

STANDARD DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

00011# TEMPERATURE, WATER

(DEG. F)

00915 CALCIUM, DISSOLVED

(MG/L AS CA)

00925 MAGNESIUM, DISSOLVED

(MG/L AS MG)

C0930 SODIUM, DISSOLVED

(MG/L AS NA)

C0935# POTASSIUM, DISSOLVED

(MG/L AS K)

00955# SILICA, DISSOLVED

(MG/L AS SI02)

01005 BARIUM, DISSOLVED

(UG/L AS BA)

01006# ALUMINIUM (UG/L)

01020# BORON, DISSOLVED

(UG/L AS B)

01040# COPPER, DISSOLVED

(UG/L AS CU)

01046# IRON, DISSOLVED

(UG/L AS FE)

01049 LEAD, DISSOLVED

(UG/L AS PB)

01056# MANGANESE, DISSOLVED

(UG/L AS MN)

01060 MOLYBDENUM, DISS

(UG/L AS MO)

01090# STRONTIUM, DISSOLVED

(UG/L AS SR)

C1090 ZINC, DISSOLVED

(UG/L AS ZN)

4 164.67 152.03 157.14 5.86 165.28 149.01 153.19 157.14 161.10 164.65 166.78

4 57.60 51.40 54.05 2.60 57.66 50.44 52.29 54.05 55.81 57.39 58.33

3 99999.00 1.00

3 99999.00 1.00

3 99999.00 5.00

3 1.00 0.10 0.22 3.78 2.48 0.02 0.09 0.22 0.53 1.18 1.92

3 5.00 5.00 5.00 1.00 5.01 4.99 4.99 5.00 5.01 5.01 5.01

1 1.00 1.00

3 20.00 10.00 12.60 1.49 26.28 6.04 9.62 12.60 16.51 21.05 24.34

3 500.00 100.00 215.44 2.24 949.35 48.89 124.93 215.44 371.52 606.46 812.95

2 10.00 1.00 3.16 5.09 448.23 0.02 1.05 3.16 9.49 25.50 46.05

3 50.00 10.00 17.10 2.53 94.27 3.10 9.13 17.10 32.02 56.28 78.86

1 20.00 20.00

2 5.00 1.00 2.24 3.12 71.34 0.07 1.04 2.24 4.82 9.62 14.54

1 10.00 10.00

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

1 10.00 10.00

PARAMETER DESCRIPTION SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION
01130 LITHIUM, DISSOLVED (UG/L AS LI)	1	1.00	1.00		
01150 TITANIUM, DISSOLVED (UG/L AS TI)	1	1.00	1.00		
09503 RADIUM (UG/L)	1	100.00	100.00		

END OF CORE-HOLE CE 709 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/14/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "999999.0" ARE "MAJOR" CONCENTRATIONS

H200A5A-2

CORE-HOLE CE 709
NUMBER
OF

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN

00003#	SAMPLE DEPTH, FEET	4	164.67	152.03	157.14	5.86	165.27	149.01	153.19	157.14	161.10	164.65	166.78
00011#	TEMPERATURE, WATER (DEG. F)	4	57.60	51.40	54.05	2.60	57.66	50.44	52.29	54.05	55.81	57.39	58.33
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	4	1557.00	1120.00	1236.26	1.17	1532.98	996.98	1113.47	1236.26	1372.60	1508.00	1565.27
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	50.00	33.00	40.62	1.34	99.31	16.61	33.31	40.62	49.52	59.20	65.86
00400#	PH (STANDARD UNITS)	4	8.00	7.10	7.47	0.38	8.00	6.95	7.22	7.47	7.73	7.96	8.10
00410*	ALKALINITY, TOTAL (MG/L AS CAC03)	4	600.00	268.00	461.16	1.45	772.96	275.13	358.73	461.16	592.83	743.06	850.53
00440*	BICARBONATE ION (MG/L AS HC03)	4	840.00	490.00	646.32	1.25	885.08	471.96	554.69	646.32	753.09	864.08	938.13
00445*	CARBONATE ION (MG/L AS C03)	4	115.00	36.00	77.34	1.68	159.20	37.57	54.44	77.34	109.87	150.66	181.98
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	4	1070.00	700.00	821.31	1.20	1063.24	634.43	724.40	821.31	931.18	1042.48	1115.30
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.80	0.80									
00613*	NITROGEN, NITRATE, DISSOLVED (MG/L AS N)	2	<0.10	<0.02	<0.04	3.12							
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	4	30.00	8.00	14.17	1.74	30.53	6.58	9.76	14.17	20.58	28.79	35.19
00720*	CYANIDE (MG/L AS CN)	4	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	6.50	<0.10	0.81	19.14	6411.19	0.00	0.11	0.81	5.91	35.47	103.57
00900*	HARDNESS, TOTAL (MG/L AS CAC03)	3	76.00	72.00	73.31	1.03	77.63	69.23	71.78	73.31	74.87	76.30	77.16
00915*	CALCIUM, DISSOLVED (MG/L AS CA)	4	9.00	4.90	6.99	1.31	10.17	4.80	5.82	6.99	8.39	9.88	10.90
00925*	MAGNESIUM, DISSOLVED (MG/L AS MG)	4	22.00	12.00	15.08	1.30	21.70	10.48	12.64	15.08	18.00	21.10	23.21

H20QASA-2

CCFE-HOLE CE 709

NUMBER

OF

ANALYSES

PARAMETER DESCRIPTION

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD

DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

00930* SODIUM, DISSOLVED
(MG/L AS NA)

4

430.00

230.00

317.15

1.29

453.01

222.04

266.66

317.15

377.20

440.84

483.92

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2

3.70

1.30

2.15

2.10

20.82

0.23

1.33

2.19

3.61

5.66

7.40

00940* CHLORIDE, DISSOLVED
(MG/L AS CL)

4

41.00

8.50

16.17

1.94

40.61

6.44

10.33

16.17

25.30

37.85

48.15

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

4

65.00

25.00

46.95

1.54

85.92

25.70

35.04

46.99

63.02

82.05

96.07

00950* FLUORIDE, TOTAL
(MG/L AS F)

4

13.00

7.20

9.06

1.29

12.95

6.34

7.62

9.06

10.78

12.60

13.84

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

4

17.00

7.00

12.03

1.51

21.23

6.82

9.13

12.03

15.86

20.33

23.58

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

4

<10.00

<10.00

<10.00

1.00

<10.00

<10.00

<10.00

<10.00

<10.00

<10.00

<10.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

2

<1000.00

<1000.00

<1000.00

1.00

<1000.00

<1000.00

<1000.00

<1000.00

<1000.00

<1000.00

<1000.00

01020* BORON, DISSOLVED
(UG/L AS B)

4

900.00

<100.00

387.30

2.57

1436.25

104.44

204.76

387.30

732.57

1209.46

1830.72

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

4

<10.00

<10.00

<10.00

1.00

<10.00

<10.00

<10.00

<10.00

<10.00

<10.00

<10.00

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

4

30.00

<10.00

13.16

1.73

28.21

6.14

9.08

13.16

19.07

26.61

32.49

01040* COPPER, DISSOLVED
(UG/L AS CU)

4

<100.00

<100.00

<100.00

1.00

<100.00

<100.00

<100.00

<100.00

<100.00

<100.00

<100.00

01046* IRON, DISSOLVED
(UG/L AS FE)

4

6599.97

100.00

761.65

6.38

9967.55

58.21

218.10

761.69

2660.08

4190.29

16046.36

01049* LEAD, DISSOLVED
(UG/L AS PB)

4

400.00

10.00

94.57

4.96

872.94

10.25

32.09

94.57

278.72

736.67

1317.34

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

4

80.00

<50.00

61.17

1.27

85.24

43.89

52.05

61.17

71.88

83.11

90.65

01060* MOLYBDENUM, DISS
(UG/L AS MO)

1

<100.00

<100.00

<100.00

1.00

<100.00

<100.00

<100.00

<100.00

<100.00

<100.00

<100.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

2

10.00

10.00

10.00

1.00

10.07

9.93

10.00

10.02

10.03

10.04

H20QASA-2

COKE-HOLE CE 709
NUMBER OF ANALYSES

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED									
						95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%				
01075* SILVER, DISSOLVED (UG/L AS AG)	2	<10.00	<10.00	<10.00	1.00												
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	1	2899.99	2899.99														
01090* ZINC, DISSOLVED (UG/L AS ZN)	4	500.00	100.00	223.61	2.53	812.08	61.57	119.42	223.61	418.67	735.91	1031.12					
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	1	100.00	100.00														
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00												
01145* SELENIUM, DISSOLVED (UG/L AS SE)	4	<10.00	<10.00	<10.00	1.00												
01503* GROSS ALPHA, DISSOLVED (PC/L)	3	6.60	1.50	2.66	2.22	11.48	0.62	1.55	2.66	4.55	7.38	9.85					
03501 GROSS BETA, DISSOLVED (PC/L)	1	25.00	25.00														
32730* PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00												
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	4	0.20	<0.10	0.12	1.41	0.19	0.07	0.09	0.12	0.15	0.19	0.21					
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	3	0.50	0.20	0.37	1.70	0.97	0.14	0.26	0.37	0.53	0.73	0.88					
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	3	1.10	<0.10	0.32	3.32	2.91	0.04	0.14	0.32	0.72	1.49	2.31					
71870 BROMIDE (MG/L)	1	<0.02	<0.02														
71890* MERCURY DISSOLVED (UG/L AS HG)	4	<2.00	<1.00	<1.41	1.49												

END OF CORE-HOLE CE 709 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 07/14/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "95599.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE CE 709
NUMBER OF ANALYSES

AQUIFER L METHOD 3A

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

4	258.25	136.65	221.55	87.92	343.59	99.51	162.20	221.55	280.90	334.27	366.19
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00011# TEMPERATURE, WATER
(DEG. F)

4	51.80	47.50	49.67	1.76	52.11	47.24	48.49	49.67	50.86	51.93	52.57
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00915 CALCIUM, DISSOLVED
(MG/L AS CA)

4	99999.00	99999.00									
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00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

4	99999.00	5.00									
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00930# SODIUM, DISSOLVED
(MG/L AS NA)

3	10.00	5.00	6.30	1.49	13.14	3.02	4.81	6.30	8.25	10.52	12.17
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00935# POTASSIUM, DISSOLVED
(MG/L AS K)

4	10.00	1.00	1.78	3.16	8.79	0.36	0.92	1.78	3.87	7.78	11.82
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00955# SILICA, DISSOLVED
(MG/L AS SI02)

4	20.00	2.00	4.47	2.97	20.25	0.99	2.15	4.47	9.32	18.04	26.78
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01005# BARIUM, DISSOLVED
(UG/L AS BA)

2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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01006# ALUMINIUM (UG/L)

4	4559.99	100.00	397.63	6.36	5187.20	30.48	114.03	397.63	1386.56	4263.32	8345.81
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01020# BORON, DISSOLVED
(UG/L AS B)

4	1000.00	500.00	707.10	1.49	1232.20	405.78	539.74	707.10	926.56	1181.03	1365.65
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01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1	1.00	1.00									
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01040# COPPER, DISSOLVED
(UG/L AS CU)

4	10.00	1.00	4.73	2.96	21.35	1.05	2.27	4.73	9.84	19.03	28.23
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01046# IRON, DISSOLVED
(UG/L AS FE)

4	500.00	10.00	70.71	5.06	671.73	7.44	23.66	70.71	211.33	565.63	1019.13
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01049 LEAD, DISSOLVED
(UG/L AS PB)

1	10.00	10.00									
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01056# MANGANESE, DISSOLVED
(UG/L AS MN)

4	10.00	1.00	4.73	2.96	21.35	1.05	2.27	4.73	9.84	19.03	28.23
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01060# MOLYBDENUM, DISS
(UG/L AS MO)

2	50.00	1.00	7.07	15.90	31975.48	0.00	1.09	7.07	45.75	245.25	669.44
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01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

4	99999.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
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H20QAS-2 CORE-HOLE CE 709 AQUIFER L METHOD 3A REPORT DATE 03/10/77 PAGE 171

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES				
						95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	25%	50%	75%
01090* ZINC, DISSOLVED (UG/L AS ZN)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49
01130 LITHIUM, DISSOLVED (UG/L AS LI)	1	1.00	1.00							
01150* TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.93	10.00	10.02
05503 RADIUM (UG/L)	1	300.00	300.00							

END OF CORE-HOLE CE 709 AQUIFER L METHOD 3A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 06/10/75

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20-ASA-2		CORE-HOLE CE 709	AQUIFER L METHOD 3A		REPORT DATE 03/10/77		PAGE 172						
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
		NUMBER OF					UPPER	LOWER	25%	50%	75%	90%	95%
00003#	SAMPLE DEPTH, FEET	4	298.25	136.65	221.55	87.92	343.59	99.51	162.20	221.55	280.90	334.27	366.19
00011#	TEMPERATURE, WATER (DEG. F)	4	51.80	47.50	49.67	1.76	52.11	47.24	48.49	49.67	50.86	51.93	52.57
00095*	CONDUCTIVITY (UMHOS AT 25 DEG C)	4	1010.00	810.00	894.43	1.10	1020.26	784.12	838.97	894.43	953.56	1010.06	1045.43
00400#	PH (STANDARD UNITS)	4	10.20	6.40	7.70	1.72	10.08	5.32	6.54	7.70	8.86	9.90	10.52
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	4	89.00	25.00	49.47	1.77	109.26	22.39	33.65	49.47	72.72	102.85	126.53
00440*	BICARBONATE ION (MG/L AS HCO3)	4	55.00	<0.10	2.02	32.36	251.32	0.02	0.19	2.02	21.07	173.85	614.18
00445*	CARBONATE ION (MG/L AS CO3)	4	84.00	17.00	39.00	2.01	102.46	14.84	24.38	39.00	62.38	95.17	122.53
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	4	680.00	430.00	564.83	1.21	739.06	431.68	495.61	564.83	643.72	724.04	776.78
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	3	9.00	6.00	7.56	1.23	11.09	5.15	6.57	7.56	8.70	9.88	10.65
00720*	CYANIDE (MG/L AS CN)	4	<0.01	<0.01	<0.01	1.00							
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	4	250.00	140.00	187.35	1.31	272.53	128.79	156.13	187.35	224.81	264.84	292.12
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	4	84.00	25.00	42.34	1.73	90.56	19.79	29.25	42.34	61.28	85.45	104.25
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	4	46.00	2.10	8.98	4.39	69.97	1.15	3.31	8.98	24.37	59.81	102.34
00930*	SODIUM, DISSOLVED (MG/L AS Na)	4	155.00	86.00	124.80	1.29	178.66	87.18	104.82	124.80	148.59	173.83	190.93
00940*	CHLORIDE, DISSOLVED (MG/L AS Cl)	4	18.00	6.90	13.34	1.56	24.78	7.18	9.87	13.34	18.03	23.63	27.79
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	4	355.00	230.00	290.00	1.20	375.62	223.90	255.72	290.00	328.88	368.27	394.05
00950*	FLUORIDE, TOTAL (MG/L AS F)	4	0.40	0.14	0.27	1.57	0.50	0.14	0.20	0.27	0.36	0.47	0.56

H20QAS4-2

CCRE-HOLE CE 709

AQUIFER L METHOD 3A

NUMBER

CF

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
						UPPER	25% 50% 75% 90% 95%

CC955* SILICA, DISSOLVED
(MG/L AS SI02)

4	32.00	9.40	14.88	1.78	33.27	6.66	10.07 14.88 22.01 31.29 38.61
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O1000* ARSENIC, DISSOLVED
(UG/L AS AS)

4	<10.00	<10.00	<10.00	1.00			
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O1005* BARIUM, DISSOLVED
(UG/L AS BA)

4	<1000.00	<1000.00	<1000.00	1.00			
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O1020* BORON, DISSOLVED
(UG/L AS B)

4	2059.99	200.00	648.07	3.15	3187.01	131.78	298.68 648.07 1406.16 2821.99 4280.25
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O1025* CADMIUM, DISSOLVED
(UG/L AS CD)

4	<10.00	<10.00	<10.00	1.00			
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O1030* CHROMIUM, DISSOLVED
(UG/L AS CR)

4	<10.00	<10.00	<10.00	1.00			
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O1040* COPPER, DISSOLVED
(UG/L AS CU)

4	<100.00	<10.00	<31.62	3.78			
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O1046* IRON, DISSOLVED
(UG/L AS FE)

4	1700.00	550.00	840.59	1.67	1715.84	411.81	594.13 840.59 1189.29 1624.84 1958.19
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O1049* LEAD, DISSOLVED
(UG/L AS PB)

4	330.00	180.00	220.76	1.31	322.25	151.26	183.69 220.78 265.36 313.08 345.63
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O1056* MANGANESE, DISSOLVED
(UG/L AS MN)

4	80.00	<50.00	56.23	1.26	77.92	40.58	47.99 56.23 65.90 76.00 82.77
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O1065* NICKEL, DISSOLVED
(UG/L AS NI)

4	50.00	<10.00	22.79	1.73	48.86	10.63	15.73 22.79 33.03 46.10 56.27
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O1075* SILVER, DISSOLVED
(UG/L AS AG)

4	<10.00	<10.00	<10.00	1.00			
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O1090* ZINC, DISSOLVED
(UG/L AS ZN)

4	200.00	10.00	68.49	3.74	427.19	10.98	28.12 68.49 166.81 371.46 599.55
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O1106 ALUMINUM, DISSOLVED
(UG/L AS AL)

1	<100.00	<100.00					
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O1145* SELENIUM, DISSOLVED
(UG/L AS SE)

4	<10.00	<10.00	<10.00	1.00			
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O1503* GROSS ALPHA,
DISSOLVED (PC/L)

3	66.00	0.10	2.58	29.54	1297.55	0.01	0.26 2.58 25.37 198.09 677.09
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O3501 GROSS BETA,
DISSOLVED (PC/L)

1	18.00	18.00					
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H20GASA-2	CORE-HOLE CE 709 NUMBER OF	AQUIFER U METHOD 1	PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			PAGE 176		
									UPPER	LOWER	25%	50%	75%		90%	95%
									REPORT DATE 03/10/77							
00003*			SAMPLE DEPTH, FEET	2	745.00	229.00	487.00	364.87	1597.17	-623.17	240.71	487.00	733.29	954.76	1087.21	
00011*			TEMPERATURE, WATER (DEG. F)	2	53.00	52.00	52.50	0.71	54.65	50.35	52.02	52.50	52.98	53.41	53.66	
00055*			CONDUCTIVITY (UMHOS AT 25 DEG C)	2	1200.00	1100.00	1148.91	1.06	1383.24	954.28	1102.56	1148.91	1197.20	1242.37	1270.18	
00400*			PH (STANDARD UNITS)	2	7.80	7.70	7.75	0.07	7.96	7.54	7.70	7.75	7.80	7.84	7.87	
00410*			ALKALINITY, TOTAL (MG/L AS CaCO3)	2	409.00	392.00	400.41	1.03	438.45	365.66	392.43	400.41	408.55	416.02	420.55	
00440*			BICARBONATE ION (MG/L AS HCO3)	2	560.00	500.00	538.51	1.11	740.98	391.37	501.70	538.51	578.02	616.02	639.93	
00445*			CARBONATE ION (MG/L AS CO3)	2	<0.10	<0.10	<0.10	1.00								
00540*			DISSOLVED SOLIDS (ROE AT 173 DEG C, M)	2	910.00	862.00	885.67	1.04	984.72	788.58	863.15	885.67	908.78	930.08	943.05	
00900*			HARDNESS, TOTAL (MG/L AS CaCO3)	2	520.00	432.00	473.96	1.14	705.99	318.19	433.86	473.96	517.77	560.60	587.90	
00915*			CALCIUM, DISSOLVED (MG/L AS Ca)	2	100.00	84.00	91.65	1.13	133.37	62.98	84.33	91.65	99.60	107.34	112.26	
00925*			MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	65.00	54.00	59.25	1.14	88.28	39.76	54.23	59.25	64.73	70.09	73.50	
00930*			SODIUM, DISSOLVED (MG/L AS Na)	2	140.00	120.00	129.61	1.12	180.62	93.01	120.42	129.61	139.52	149.06	155.08	
00940*			CHLORIDE, DISSOLVED (MG/L AS Cl)	2	23.00	15.00	18.57	1.35	46.59	7.40	15.15	18.57	22.78	27.36	30.54	
00945*			SULFATE, DISSOLVED (MG/L AS SO4)	2	340.00	295.00	316.70	1.11	429.80	233.36	295.96	316.70	338.90	360.19	373.55	
00950*			FLUORIDE, TOTAL (MG/L AS F)	2	1.60	0.10	0.40	7.10	155.86	0.00	0.11	0.40	1.50	4.94	10.06	
00955*			SILICA, DISSOLVED (MG/L AS SiO2)	2	22.00	20.00	20.98	1.07	25.75	17.09	20.04	20.98	21.95	22.87	23.43	
01046*			IRON, DISSOLVED (UG/L AS FE)	2	50.00	5.00	15.81	5.09	2241.14	0.11	5.27	15.81	47.45	127.49	230.23	

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WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

2

<50.00

<50.00

50.00

1.00

2

0.60

0.50

0.550

1.14

0.81 0.37

0.50

0.55

0.60

0.65

0.68

END OF CORE-HOLE CE 709 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 09/02/72 THRU 09/06/72

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "\$999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE CE 709
NUMBER
CF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDLIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

GC003# SAMPLE DEPTH, FEET

8

53.82

33.71

45.54

7.87

51.96

39.13

40.23

45.54

50.86

55.63

58.49

00011# TEMPERATURE, WATER
(DEG. F)

8

50.90

46.90

49.15

1.52

50.39

47.91

48.12

49.15

50.18

51.10

51.65

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

6

99999.00

99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

7

99999.00

99999.00

C0930# SODIUM, DISSOLVED
(MG/L AS NA)

7

99999.00

2.00

4.14

1.87

7.71

2.22

2.71

4.14

6.30

9.20

11.53

00935# PCTASSIUM, DISSOLVED
(MG/L AS K)

7

1.00

0.01

0.17

5.20

0.76

0.04

0.06

0.17

0.53

1.45

2.63

00955# SILICA, DISSOLVED
(MG/L AS SI02)

7

5.00

2.00

3.85

1.56

5.74

2.58

2.85

3.85

5.20

6.83

8.03

01005# BARIUM, DISSOLVED
(UG/L AS BA)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01006# ALUMINIUM (UG/L)

7

1000.00

20.00

100.00

3.26

287.46

34.79

45.05

100.00

221.97

454.66

696.10

01020# BORON, DISSOLVED
(UG/L AS B)

7

500.00

100.00

305.79

1.93

549.32

170.22

196.47

305.79

475.91

708.41

898.67

01040# COPPER, DISSOLVED
(UG/L AS CU)

7

10.00

1.00

3.38

3.20

9.56

1.19

1.54

3.38

7.41

15.02

22.92

01046# IRON, DISSOLVED
(UG/L AS FE)

7

500.00

10.00

87.73

4.18

315.23

24.42

33.40

87.73

230.46

549.29

923.37

01046# LEAD, DISSOLVED
(UG/L AS PB)

3

50.00

1.00

3.68

9.57

233.54

0.06

0.80

3.68

16.92

66.66

151.32

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

7

100.00

1.00

4.25

5.39

19.10

0.94

1.36

4.25

13.25

36.86

67.96

01060# MOLYBDENUM, DISS
(UG/L AS MO)

5

10.00

1.00

3.98

3.53

16.97

0.93

1.70

3.98

9.33

20.05

31.70

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

6

100.00

100.00

100.00

1.00

100.49

99.51

99.67

100.00

100.33

100.63

100.81

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1

10.00

10.00

H200ASA-2		CORE-HOLE CE 709	AQUIFER U METHOD	3	REPORT DATE 03/10/77												PAGE 180
		NUMBER OF ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					95%			
PARAMETER DESCRIPTION							UPPER	LOWER	25%	50%	75%	90%					
00003#	SAMPLE DEPTH, FEET	8	53.82	33.71	45.54	7.87	51.96	39.13	40.23	45.54	50.86	55.63	58.49				
00011#	TEMPERATURE, WATER (DEG. F)	8	50.90	46.90	49.15	1.52	50.39	47.91	48.12	49.15	50.18	51.10	51.65				
00095#	CONDUCTIVITY (UMHOS AT 25 DEG C)	8	1541.00	810.00	1187.03	1.19	1371.93	1027.05	1052.95	1187.03	1338.18	1490.47	1589.70				
00340#	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	25.00	17.00	20.62	1.31	47.27	8.99	17.15	20.62	24.78	29.24	32.29				
00400#	PH (STANDARD UNITS)	8	7.10	6.20	6.55	0.38	6.90	6.28	6.33	6.59	6.84	7.07	7.21				
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)	8	425.00	210.00	349.93	1.25	418.99	292.24	301.44	349.93	406.20	464.50	503.29				
00440#	BICARBONATE ION (MG/L AS HCO3)	8	520.00	195.00	400.37	1.37	518.50	309.15	323.22	400.37	495.94	601.22	674.57				
00445#	CARBONATE ION (MG/L AS CO3)	8	60.00	<0.10	1.04	25.34	14.50	0.07	0.12	1.04	9.21	65.53	211.87				
00540#	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	8	570.00	530.00	824.07	1.21	964.38	704.17	723.48	824.07	938.63	1055.20	1131.72				
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.20	0.20													
00613#	NITROGEN, NITRATE, DISSOLVED (MG/L AS N)	2	0.20	<0.02	0.06	5.09	8.96	0.00	0.02	0.06	0.19	0.51	0.92				
00681#	CARBON, ORGANIC, DISS (MG/L AS C)	7	14.00	6.00	8.82	1.40	11.95	6.51	7.01	8.82	11.09	13.63	15.42				
00720#	CYANIDE (MG/L AS CN)	8	<0.01	<0.01	<0.01	1.00											
00746#	SULFIDE, DISSOLVED (MG/L AS S)	2	0.60	0.30	0.42	1.63	1.88	0.10	0.30	0.42	0.59	0.80	0.95				
00900#	HARDNESS, TOTAL (MG/L AS CaCO3)	7	505.00	230.00	408.60	1.32	523.17	319.43	339.32	408.80	492.50	582.31	643.67				
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)	8	76.00	11.00	44.14	1.88	73.80	26.40	28.84	44.14	67.56	99.06	124.53				
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)	8	51.00	49.00	71.16	1.24	84.53	59.91	61.71	71.16	82.06	93.28	100.71				

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CORE-HOLE CE 709

NUMBER

AQUIFER U METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER LOWER

25%

50%

75%

90%

95%

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

PARAMETER DESCRIPTION

00930* SODIUM, DISSOLVED
(MG/L AS NA)

8

200.00

110.00

141.14

1.25

169.41

117.59

121.34

141.14

164.17

188.07

203.99

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2

5.00

1.10

2.35

2.92

60.95

0.09

1.14

2.35

4.83

9.25

13.65

00940* CHLORIDE, DISSOLVED
(MG/L AS CL)

8

28.00

<1.00

8.17

3.51

22.71

2.94

3.50

8.17

19.04

40.78

64.30

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

8

370.00

190.00

300.90

1.23

357.00

253.62

261.19

300.90

346.65

393.70

424.83

00950* FLUORIDE, TOTAL
(MG/L AS F)

8

0.60

0.16

0.26

1.57

0.37

0.18

0.19

0.26

0.35

0.46

0.54

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

8

33.00

5.60

20.59

1.81

33.42

12.69

13.79

20.59

30.74

44.09

54.70

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

8

<10.00

<10.00

<10.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

6

<1000.00

<1000.00

<1000.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

8

2059.99

<10.00

307.83

5.50

1235.92

76.67

97.39

307.83

973.00

2738.79

5085.56

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

8

<10.00

<1.00

<7.50

2.26

2.26

2.26

2.26

2.26

2.26

2.26

2.26

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

8

<10.00

<10.00

<10.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01040* COPPER, DISSOLVED
(UG/L AS CU)

8

100.00

<10.00

56.23

2.90

134.09

23.58

27.39

56.23

115.47

220.52

324.70

01046* IRON, DISSOLVED
(UG/L AS FE)

8

8559.97

70.00

1177.92

7.85

6317.08

219.64

293.24

1177.92

4731.54

15521.67

34898.88

01049* LEAD, DISSOLVED
(UG/L AS PB)

8

500.00

<10.00

146.06

4.38

487.25

43.79

53.88

146.08

396.03

971.04

1660.24

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

8

200.00

<50.00

97.25

1.84

160.09

59.07

64.37

97.25

146.93

212.96

265.88

01060* MOLYBDENUM, DISS
(UG/L AS MO)

1

<100.00

<100.00

<100.00

1.62

21.78

8.34

9.75

13.48

18.64

24.94

29.69

01065* NICKEL, DISSOLVED
(UG/L AS NI)

6

30.00

10.00

13.46

1.62

21.78

8.34

9.75

13.48

18.64

24.94

29.69

L

H20QASA-2 CORE-HOLE CE 709 AWIFER U METHOD 3 REPORT DATE 03/10/77 PAGE 182

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	LIMITS ON MEAN LOWER		THAN OR EQUAL TO VALUE LISTED				
					UPPER		25%	50%	75%	90%	95%
C1075* SILVER, DISSOLVED (UG/L AS AG)	6 50.00	<10.00	16.48	2.17	35.79	7.58	9.75	16.48	27.83	44.59	59.12
O1080 STRONTIUM, DISSOLVED (UG/L AS SR)	1 600.00	600.00									
O1090* ZINC, DISSOLVED (UG/L AS ZN)	8 5499.99	20.00	304.57	5.92	1298.32	71.45	91.70	304.57	1011.64	2977.42	5678.08
O1106* ALUMINUM, DISSOLVED (UG/L AS AL)	2 <100.00	<100.00	<100.00	1.00							
O1130* LITHIUM, DISSOLVED (UG/L AS LI)	2 <100.00	<100.00	<100.00	1.00							
O1145* SELENIUM, DISSOLVED (UG/L AS SE)	8 <10.00	<10.00	<10.00	1.00							
O1503* GROSS ALPHA, DISSOLVED (PC/L)	5 6.50	0.40	2.63	3.03	9.42	0.74	1.24	2.63	5.56	10.91	16.31
32730* PFENCLS (UG/L)	2 16.00	<1.00	4.00	7.10	1558.55	0.01	1.06	4.00	15.02	49.39	100.62
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	8 <0.10	<0.10	<0.10	1.00							
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	7 0.40	<0.10	0.22	1.61	0.34	0.14	0.16	0.22	0.30	0.41	0.49
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	7 0.60	<0.10	0.21	2.22	0.43	0.10	0.12	0.21	0.36	0.59	0.79
71870* BROMIDE (MG/L)	2 0.40	<0.10	0.20	2.67	3.95	0.01	0.10	0.20	0.39	0.70	1.00
71890* MERCURY DISSOLVED (UG/L AS HG)	8 <10.00	<1.00	<3.76	2.94							

END OF CORE-HOLE CE 709 AWIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/12/76

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CCRE-HOLE G-S M-1
NUMBER
CF

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
50% 75% 90% 95%

00003#	SAMPLE DEPTH, FEET	2	1887.00	1404.00	1645.50	341.53	2684.67	606.33	1414.97	1645.50	1876.03	2083.34	2207.32
00011#	TEMPERATURE, WATER (DEG. F)	2	44.42	43.52	43.97	0.64	45.91	42.03	43.54	43.97	44.40	44.79	45.02
00015	CALCIUM, DISSOLVED (MG/L AS CA)	2	99999.00	99999.00									
00025	MAGNESIUM, DISSOLVED (MG/L AS MG)	2	99999.00	99999.00									
00030	SODIUM, DISSOLVED (MG/L AS NA)	2	99999.00	99999.00									
00035	POTASSIUM, DISSOLVED (MG/L AS K)	2	99999.00	5.00									
00055*	SILICA, DISSOLVED (MG/L AS SI02)	2	20.00	20.00	20.00	1.00	20.10	19.90	19.99	20.00	20.02	20.04	20.05
01006	ALUMINIUM (UG/L)	1	50.00	50.00									
01020*	BORON, DISSOLVED (UG/L AS B)	2	4559.99	500.00	1581.13	5.09224	113.75	11.16	526.83	1581.13	4745.32	12749.09	23022.84
01040	COPPER, DISSOLVED (UG/L AS CU)	1	10.00	10.00									
01046*	IRON, DISSOLVED (UG/L AS FE)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01049	LEAD, DISSOLVED (UG/L AS PB)	1	10.00	10.00									
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01150	TITANIUM, DISSOLVED (UG/L AS TI)	1	10.00	10.00									

END OF CCRE-HOLE G-S M-1 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/14/74 THRU 11/15/74

* -- ESTIMATE USING METHOD CF MOMENTS
-- AC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H204ASA-2

CCRE-HOLE G-S M-1

AQUIFER C METHOD 1

NUMBER
OF

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEANSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	2	1887.00	1404.00	1645.50	341.53	2684.67	606.33	1414.97	1645.50	1876.03	2083.34	2207.32
00011#	TEMPERATURE, WATER (DEG. F)	2	44.42	43.52	43.97	0.64	45.91	42.03	43.54	43.97	44.40	44.79	45.02
00095*	CONDUCTIVITY (UMHGS AT 25 DEG C)	2	3410.00	2599.99	2977.57	1.21	5336.40	1661.41	2616.08	2977.57	3389.02	3807.36	4081.81
00400#	PH (STANDARD UNITS)	2	8.30	8.20	8.25	0.07	8.47	8.03	8.20	8.25	8.30	8.34	8.37
00440*	BICARBONATE ION (MG/L AS HCO3)	2	2620.00	2070.00	2328.82	1.18	3864.52	1403.37	2081.31	2328.82	2605.74	2892.79	3062.35
00445*	CARBONATE ION (MG/L AS CO3)	2	66.00	<0.10	2.57	98.5699	2384.00	0.00	0.12	2.57	56.95	924.09	4891.43
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	2	2719.99	2499.99	2607.67	1.06	3120.26	2179.29	2505.90	2607.67	2713.58	2812.49	2873.36
00746	SULFIDE, DISSOLVED (MG/L AS S)	1	5.10	5.10									
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	2	150.00	58.00	93.27	1.96	720.45	12.08	59.26	93.27	146.80	220.72	281.68
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	2	27.00	9.00	15.59	2.17	165.70	1.47	9.23	15.59	26.33	42.20	55.95
00925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	2	20.00	8.70	13.19	1.80	79.08	2.20	8.87	13.19	19.63	23.05	34.74
00930*	SODIUM, DISSOLVED (MG/L AS Na)	2	970.00	810.00	886.40	1.14	1305.94	601.63	813.38	886.40	965.97	1043.61	1092.99
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	76.00	<1.00	8.72	21.38	97045.50	0.00	1.10	8.72	68.88	441.96	1343.23
00940*	CHLORIDE, DISSOLVED (MG/L AS Cl)	2	78.00	35.00	52.25	1.76	292.99	9.32	35.64	52.25	76.59	108.04	132.71
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	2	270.00	<4.00	32.86	19.6628	336.06	0.00	4.40	32.86	245.38	1496.21	4411.00
00950*	FLUORIDE, TOTAL (MG/L AS F)	2	9.50	8.10	8.77	1.12	12.36	6.22	8.13	8.77	9.47	10.14	10.56
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	2	15.00	10.00	12.25	1.33	29.30	5.12	10.09	12.25	14.86	17.69	19.63

H20CASA-2 CCRE-HOLE G-S M-1 AQUIFER C METHOD 1

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01000*	ARSENIC, DISSOLVED (UG/L AS AS)	2	150.00	40.00	77.46	2.55	1330.77	4.51	41.22	77.46	145.57	256.71	360.40
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	2	<10.00	<10.00	<10.00	1.00							
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	2	<50.00	<50.00	<50.00	1.00							
01040*	COPPER, DISSOLVED (UG/L AS CU)	2	<100.00	<100.00	<100.00	1.00							
01046*	IRON, DISSOLVED (UG/L AS FE)	2	130.00	60.00	88.32	1.73	466.12	16.73	61.06	88.32	127.74	178.01	217.09
01049*	LEAD, DISSOLVED (UG/L AS PB)	2	60.00	<50.00	54.77	1.14	81.08	37.00	50.21	54.77	59.75	64.61	67.71
01090*	ZINC, DISSOLVED (UG/L AS ZN)	2	<500.00	<500.00	<500.00	1.00							
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	2	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	2	9.50	4.50	6.54	1.70	32.63	1.31	4.58	6.54	9.34	12.87	15.59
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	2	0.20	0.10	0.14	1.63	0.63	0.03	0.10	0.14	0.20	0.27	0.32
71830*	HYDROXIDE (MG/L)	2	<0.10	<0.10	<0.10	1.00							
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	2	0.49	0.11	0.23	2.88	5.78	0.01	0.11	0.23	0.47	0.90	1.32
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	2	<0.10	<0.10	<0.10	1.00							
71890*	MERCURY DISSOLVED (UG/L AS HG)	2	<10.00	<10.00	<10.00	1.00							

END OF CCRE-HOLE G-S M-1 AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/14/74 THRU 11/15/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2		CORE-HOLE G-S M-1			AQUIFER L METHOD 3		REPORT DATE 03/10/77			PAGE 186			
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED						
							UPPER	LOWER	25%	50%	75%	90%	95%
C0003#	SAMPLE DEPTH, FEET	8	834.60	807.05	822.87	7.98	829.38	816.36	817.48	822.87	828.26	833.10	836.00
C0011#	TEMPERATURE, WATER (DEG. F)	7	64.40	57.20	60.03	2.33	62.11	57.94	58.45	60.03	61.60	63.02	63.86
C0015	CALCIUM, DISSOLVED (MG/L AS CA)	7	99999.00	10.00									
C0025	MAGNESIUM, DISSOLVED (MG/L AS MG)	7	99999.00	99999.00									
C0030*	SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	5.00	8.41	1.41	13.60	5.20	6.65	8.41	10.63	13.11	14.87
C0035*	POTASSIUM, DISSOLVED (MG/L AS K)	7	1.00	0.01	0.37	6.12	1.88	0.07	0.11	0.37	1.27	3.80	7.34
C0055*	SILICA, DISSOLVED (MG/L AS SiO2)	7	10.00	2.00	5.35	1.72	8.69	3.29	3.71	5.35	7.71	10.73	13.06
C1006*	ALUMINIUM (UG/L)	7	100.00	10.00	42.49	2.82	107.24	16.83	21.12	42.49	85.49	160.30	255.46
C1020*	BORON, DISSOLVED (UG/L AS B)	7	500.00	100.00	305.79	1.93	549.32	170.22	196.47	305.79	475.91	708.41	898.67
C1040*	COPPER, DISSOLVED (UG/L AS CU)	7	20.00	1.00	5.72	3.60	17.99	1.82	2.41	5.72	13.59	29.58	47.10
C1046*	IRON, DISSOLVED (UG/L AS FE)	7	200.00	10.00	21.32	3.18	59.97	7.58	9.76	21.32	46.55	93.98	143.04
C1049*	LEAD, DISSOLVED (UG/L AS PB)	3	500.00	20.00	125.99	5.25	2651.80	5.99	41.13	125.99	385.93	1056.10	1928.23
C1056*	MANGANESE, DISSOLVED (UG/L AS MN)	7	10.00	1.00	5.90	2.34	12.60	2.77	3.33	5.90	10.47	17.52	23.84
C1060*	POLYBENZENE, DISS (UG/L AS MJ)	4	100.00	1.00	22.36	8.14	410.81	1.22	5.43	22.36	92.10	328.93	704.23
C1065	NICKEL, DISSOLVED (UG/L AS NI)	1	1.00	1.00									
C1075	SILVER, DISSOLVED (UG/L AS AG)	1	1.00	1.00									
C1080*	STRONTIUM, DISSOLVED (UG/L AS SR)	6	100.00	100.00	100.00	1.00	100.49	99.51	99.67	100.00	100.33	100.63	100.81

H200ASA-2 CCRE-HOLE G-S M-1 ALUIFER L METHOD 3 REPORT DATE 03/10/77 PAGE 187

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN LOWER UPPER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01090* ZINC, DISSOLVED (UG/L AS ZN)	3	10.00	1.00	2.15	3.78	24.77	0.19	0.88	2.15	5.28	11.84	19.19
01130* LITHIUM, DISSOLVED (UG/L AS LI)	4	100.00	1.00	10.00	6.55	135.92	0.74	2.81	10.00	35.57	111.36	220.36
01150* TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05

END OF CCRE-HOLE G-S M-1 ALUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD CF PCMENTS
-- NO LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2		CORE-HOLE G-S M-1		AQUIFER L METHOD 3		REPORT DATE 03/10/77		PAGE 188					
PARAMETER DESCRIPTION		ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
							UPPER	LOWER	25%	50%	75%	90%	95%
C0003#	SAMPLE DEPTH, FEET	6	834.60	807.05	822.87	7.98	829.38	816.36	817.48	822.87	828.26	833.10	836.00
C0011#	TEMPERATURE, WATER (DEG. F)	7	64.40	57.20	60.03	2.33	62.11	57.94	58.45	60.03	61.60	63.02	63.86
C0055*	CONDUCTIVITY (UMHOS AT 25 DEG C)	8	2079.99	990.00	1179.67	1.28	1445.60	962.65	996.92	1179.67	1395.91	1624.02	1777.86
C0340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	2	25.00	9.80	15.65	1.94	117.39	2.09	10.01	15.65	24.47	36.58	46.52
C0400#	PH (STANDARD UNITS)	8	7.60	6.60	7.02	0.37	7.33	6.72	6.77	7.02	7.28	7.50	7.64
C0410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	8	1200.00	279.00	402.60	1.62	598.05	271.02	290.12	402.60	558.68	750.10	894.63
C0440*	BICARBONATE ION (MG/L AS HCO3)	8	1460.00	300.00	457.57	1.67	654.40	301.50	323.94	457.57	646.31	861.69	1061.63
C0445*	CARBONATE ION (MG/L AS CO3)	8	66.00	<0.10	7.53	15.37	69.89	0.81	1.19	7.53	47.63	250.20	674.66
C0540*	DISSOLVED SOLIDS (ROE AT 176 DEG C, M)	8	1200.00	630.00	780.57	1.25	934.96	651.68	672.23	780.57	906.37	1036.72	1123.46
C0608	NITROGEN, AMMONIA, DISSOLVED(MG/L AS N)	1	1.20	1.20									
C0613*	NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	2	0.60	<0.02	0.11	11.08	165.05	0.00	0.02	0.11	0.56	2.39	5.72
C0661*	CARBON, ORGANIC, DISS (MG/L AS C)	7	17.00	7.30	10.62	1.41	14.40	7.83	8.43	10.62	13.36	16.44	18.60
C0720*	CYANIDE (MG/L AS CN)	7	<0.01	<0.01	<0.01	1.00							
C0746*	SULFIDE, DISSOLVED (MG/L AS S)	2	1.60	0.60	0.98	2.00	8.08	0.12	0.61	0.98	1.56	2.38	3.07
C0900*	HARDNESS, TOTAL (MG/L AS CaCO3)	7	215.00	80.00	148.21	1.38	157.39	111.28	119.37	148.21	184.02	223.55	251.14
C0915*	CALCIUM, DISSOLVED (MG/L AS Ca)	8	30.00	8.20	14.37	1.52	20.20	10.22	10.84	14.37	19.05	24.55	28.57
C0925*	MAGNESIUM, DISSOLVED (MG/L AS Mg)	8	35.00	14.00	26.76	1.35	34.29	20.91	21.82	26.78	32.87	39.51	44.11

H200ASA-2 CCKE-HOLE G-S M-1 AQUIFER L METHOD 3

REPORT DATE 03/10/77

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WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

STANDARD DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

CF

PARAMETER DESCRIPTION

C0930*	SODIUM, DISSOLVED (MG/L AS NA)	8	585.00	180.00	236.17	1.52	331.74	168.13	178.26	236.17	312.90	402.97	469.79
C0935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	2.90	1.60	2.15	1.52	7.74	0.60	1.62	2.15	2.86	3.69	4.30
C0940*	CHLORIDE, DISSOLVED (MG/L AS CL)	8	21.00	6.90	11.21	1.58	16.30	7.71	8.22	11.21	15.29	20.20	23.87
C0945*	SULFATE, DISSOLVED (MG/L AS SO4)	8	270.00	100.00	199.11	1.37	257.71	153.84	160.82	199.11	246.52	298.72	335.07
C0950*	FLUORIDE, TOTAL (MG/L AS F)	8	15.00	0.40	1.19	4.04	3.70	0.38	0.46	1.19	3.04	7.09	11.77
C0955*	SILICA, DISSOLVED (MG/L AS SiO2)	8	9.90	<0.10	2.16	4.51	7.38	0.63	0.78	2.16	5.97	14.90	25.76
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
O1005*	BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
O1020*	BORON, DISSOLVED (UG/L AS B)	8	500.00	10.00	129.02	3.33	343.88	48.41	57.30	129.02	290.50	602.73	932.58
O1025*	CADMIUM, DISSOLVED (UG/L AS CD)	8	<10.00	<10.00	<10.00	1.00							
C1030*	CHROMIUM, DISSOLVED (UG/L AS CR)	8	30.00	<10.00	11.47	1.47	15.75	8.36	8.83	11.47	14.91	18.88	21.73
O1040*	COPPER, DISSOLVED (UG/L AS CU)	8	<100.00	80.00	97.25	1.08	103.69	91.21	92.22	97.25	102.55	107.57	110.68
O1046*	IRON, DISSOLVED (UG/L AS FE)	8	4599.98	<50.00	779.25	6.29	3489.86	174.00	225.21	779.25	2696.26	8232.65	16049.00
O1049*	LEAD, DISSOLVED (UG/L AS PB)	8	4599.98	60.00	1055.08	4.09	3329.52	334.34	407.45	1055.08	2732.11	6428.13	10722.64
O1056*	MANGANESE, DISSOLVED (UG/L AS MN)	8	400.00	<50.00	97.84	2.17	184.18	51.98	57.95	97.84	165.19	264.55	350.61
O1060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
O1065*	NICKEL, DISSOLVED (UG/L AS NI)	6	40.00	10.00	21.40	1.60	34.17	13.40	15.60	21.40	29.36	39.02	46.25

PARAMETER DESCRIPTION ANALYSES	CF	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	LIMITS ON MEAN			THAN OR EQUAL TO VALUE LISTED					
						UPPER	LOWER		25%	50%	75%	90%	95%	
01075* SILVER, DISSOLVED (UG/L AS AG)	6	<10.00	<10.00	<10.00	1.00									
01080 STRONTIUM, DISSOLVED (UG/L AS SR)	1	300.00	300.00											
01090* ZINC, DISSOLVED (UG/L AS ZN)	8	500.00	<100.00	285.90	1.66	431.31	189.51	203.41	285.90	401.84	545.77	655.41		
01106* ALUMINUM, DISSOLVED (UG/L AS AL)	2	400.00	300.00	346.41	1.23	643.27	186.54	301.96	346.41	397.39	449.62	484.08		
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	400.00	<100.00	200.00	2.67	3947.79	10.13	103.20	200.00	387.60	702.75	1003.08		
01145* SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00									
01503* GROSS ALPHA, DISSOLVED (PC/L)	5	3.90	0.10	1.26	4.24	6.60	0.24	0.47	1.26	3.33	7.99	13.50		
03501* GROSS BETA, DISSOLVED (PC/L)	3	41.00	2.00	9.66	4.55	156.07	0.60	3.48	9.66	26.85	67.33	116.67		
32730* PHENOLS (UG/L)	2	20.00	<1.00	4.47	8.32	2816.29	0.01	1.07	4.47	18.68	67.59	145.83		
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	6	<0.10	<0.10	<0.10	1.00									
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	0.30	<0.10	0.14	1.59	0.22	0.09	0.10	0.14	0.19	0.26	0.31		
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	7	1.00	<0.10	0.17	2.34	0.36	0.08	0.10	0.17	0.30	0.50	0.68		
71870* BROMIDE (MG/L)	2	<0.10	<0.10	<0.10	1.00									
71890* MERCURY DISSOLVED (UG/L AS HG)	6	<10.00	<1.00	<3.76	2.94									

END OF CCRE-HOLE G-S M-1 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS
 * -- NC LCG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
 DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

CF

PARAMETER DESCRIPTION

000C3# SAMPLE DEPTH, FEET 1 1010.00 1010.00

00011# TEMPERATURE, WATER (DEG. F) 1 41.36 41.36

00915 CALCIUM, DISSOLVED (MG/L AS CA) 1 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED (MG/L AS MG) 1 99999.00 99999.00

00930 SODIUM, DISSOLVED (MG/L AS NA) 1 99999.00 99999.00

00935 POTASSIUM, DISSOLVED (MG/L AS K) 1 5.00 5.00

00955 SILICA, DISSOLVED (MG/L AS SI02) 1 20.00 20.00

01006 ALUMINIUM (UG/L) 1 500.00 500.00

01020 BORON, DISSOLVED (UG/L AS B) 1 500.00 500.00

01040 COPPER, DISSOLVED (UG/L AS CU) 1 10.00 10.00

01046 IRON, DISSOLVED (UG/L AS FE) 1 100.00 100.00

01056 MANGANESE, DISSOLVED (UG/L AS MN) 1 50.00 50.00

01150 TITANIUM, DISSOLVED (UG/L AS TI) 1 10.00 10.00

05503 RADIUM (UG/L) 1 100.00 100.00

END OF CORE-HOLE G-S M-1 AQWIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/13/74 THRU 11/13/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

L-

REPORT DATE 03/10/77

WET SAMPLES

95% CONFIDENCE

THEORETICAL PROBABILITY OF BEING LESS

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THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

F20QASA-2 CORE-HOLE G-S M-1 AQUIFER U METHOD 1

NUMBER OF ANALYSES

MAXIMUM MINIMUM

00003# SAMPLE DEPTH, FEET

00011# TEMPERATURE, WATER (DEG. F)

00095 CONDUCTIVITY (UMHOS AT 25 DEG C)

00400# PH (STANDARD UNITS)

00440 BICARBONATE ION (MG/L AS HCO3)

00445 CARBONATE ION (MG/L AS CO3)

00540 DISSOLVED SOLIDS (ROE AT 178 DEG C, M)

00900 HARDNESS, TOTAL (MG/L AS CaCO3)

00915 CALCIUM, DISSOLVED (MG/L AS Ca)

00925 MAGNESIUM, DISSOLVED (MG/L AS MG)

00930 SODIUM, DISSOLVED (MG/L AS NA)

00935 PCTASSIUM, DISSOLVED (MG/L AS K)

00940 CHLORIDE, DISSOLVED (MG/L AS CL)

00945 SULFATE, DISSOLVED (MG/L AS SO4)

00950 FLUORIDE, TOTAL (MG/L AS F)

00955 SILICA, DISSOLVED (MG/L AS SiO2)

01000 ARSENIC, DISSOLVED (UG/L AS AS)

1 1010.00 1010.00

1 41.36 41.36

1 1300.00 1300.00

1 7.00 7.00

1 340.00 340.00

1 8.40 8.40

1 810.00 810.00

1 260.00 260.00

1 67.00 67.00

1 24.00 24.00

1 180.00 180.00

1 13.00 13.00

1 11.00 11.00

1 320.00 320.00

1 1.00 1.00

1 24.00 24.00

1 20.00 20.00

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MINIMUM
HOD 1

ER U ME
XIMUM

... AQUIFER ...
... USES ...

G-S M-
 NUMB
 OF
 IN ANAL

CRE-HOL
SCRIPTIASA-2
METER D

H2CQASA-2		CORE-HOLE G-S M-1		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 194	
PARAMETER DESCRIPTION ANALYSES		MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION	
CF		NUMBER		SPECTROGRAPHIC SAMPLES		95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	
SAMPLE DEPTH, FEET		E		632.72		618.71		625.47	
TEMPERATURE, WATER (DEG. F)		B		59.00		55.60		57.39	
CALCIUM, DISSOLVED (MG/L AS CA)		7		99999.00		10.00		56.35	
MAGNESIUM, DISSOLVED (MG/L AS MG)		7		99999.00		10.00		56.35	
SODIUM, DISSOLVED (MG/L AS NA)		7		99999.00		5.00		5.95	
POTASSIUM, DISSOLVED (MG/L AS K)		7		2.00		0.01		0.52	
SILICA, DISSOLVED (MG/L AS SIO2)		7		20.00		2.00		2.80	
BARIUM, DISSOLVED (UG/L AS BA)		1		1.00		1.00		1.00	
ALUMINIUM (UG/L)		7		100.00		10.00		65.18	
BORON, DISSOLVED (UG/L AS B)		7		1000.00		100.00		268.27	
COPPER, DISSOLVED (UG/L AS CU)		7		10.00		1.00		3.73	
IRON, DISSOLVED (UG/L AS FE)		7		500.00		10.00		48.43	
LEAD, DISSOLVED (UG/L AS PB)		3		200.00		10.00		46.42	
MANGANESE, DISSOLVED (UG/L AS MN)		7		100.00		1.00		11.04	
MOLYBDENUM, DISS (UG/L AS MO)		5		500.00		1.00		19.04	
SILVER, DISSOLVED (UG/L AS AG)		1		1.00		1.00		1.00	
STRONTIUM, DISSOLVED (UG/L AS SR)		7		100.00		10.00		71.97	

H20QASA-2

CORE-HOLE G-S M-1

AQUIFER U METHOD 3

NUMBER

CF

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
55% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDLIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

01090* ZINC, DISSOLVED
(UG/L AS ZN)

3

100.00

1.00

10.00

10.00

687.27

0.15

2.11

10.00

47.31

191.42

441.57

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

5

10.00

1.00

2.51

3.53

10.71

0.59

1.07

2.51

5.86

12.65

20.00

01150* TITANIUM, DISSOLVED
(UG/L AS TI)

4

10.00

1.00

3.16

3.78

20.02

0.50

1.29

3.16

7.76

17.38

28.17

05503* RADIUM (UG/L)

2

300.00

100.00

173.20

2.17

1841.14

16.29

102.52

173.20

292.61

468.89

621.65

END OF CORE-HOLE G-S M-1 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H204ASA-2		CCRE-POLE G-S M-1		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 196	
PARAMETER DESCRIPTION ANALYSES		NUMBER	CF	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN	
								UPPER	LOWER
								25%	75%
								50%	90%
								95%	

H2CQSA-2

CORE-HOLE G-S M-1
NUMBER OF
ANALYSES

METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION

C0930* SODIUM, DISSOLVED
(MG/L AS NA)

8

250.00

205.00

225.85

1.07

237.84

214.47

216.39

225.85

235.73

244.98

250.68

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2

8.50

<1.00

2.92

4.54

291.31

0.03

1.05

2.92

8.10

20.29

35.14

C0940* CHLORIDE, DISSOLVED
(MG/L AS CL)

8

41.00

4.10

13.92

1.99

24.39

7.95

8.75

13.92

22.14

33.61

43.14

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

8

375.00

250.00

313.47

1.15

352.52

278.75

284.44

313.47

345.47

377.02

397.25

C0950* FLUORIDE, TOTAL
(MG/L AS F)

8

0.40

0.10

0.17

1.63

0.25

0.11

0.12

0.17

0.23

0.32

0.38

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

8

24.00

6.00

16.18

1.66

24.40

10.73

11.51

16.18

22.73

30.87

37.07

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

8

40.00

<10.00

11.89

1.63

17.73

7.97

8.54

11.89

16.56

22.29

26.63

01005* BARIUM, DISSOLVED
(UG/L AS BA)

6

<1000.00

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

8

410.00

60.00

185.75

1.88

310.49

111.12

121.39

185.75

284.22

416.66

523.76

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

6

<10.00

<10.00

<10.00

1.00

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

7

40.00

<10.00

12.19

1.69

19.47

7.63

8.56

12.19

17.36

23.86

28.86

C1040* COPPER, DISSOLVED
(UG/L AS CU)

8

780.00

<100.00

129.27

2.07

233.70

71.51

79.18

129.27

211.06

327.99

426.93

01046* IRON, DISSOLVED
(UG/L AS FE)

8

15999.95

90.00

2118.28

6.43

9662.75

464.37

602.96

2118.28

7441.85

23035.88

45276.13

01049* LEAD, DISSOLVED
(UG/L AS PB)

8

2499.99

60.00

678.43

3.40

1839.86

250.16

297.01

678.43

1549.62

3256.95

5078.39

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

8

450.00

50.00

124.22

2.21

236.77

65.17

72.82

124.22

211.89

342.51

456.46

01060* MOLYBDENUM, DISS
(UG/L AS MO)

1

1100.00

1100.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

6

200.00

20.00

36.17

2.65

95.02

13.64

18.72

36.17

69.91

126.44

180.20

H20CASA-2		CORE-HOLE G-S M-2		AQUIFER L METHOD 3		REPORT DATE 03/10/77		PAGE 199	
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN	
OF		NUMBER							
SPECTROGRAPHIC SAMPLES		95% CONFIDENCE		THEORETICAL PROBABILITY OF BEING LESS		LIMITS ON MEAN		THAN OR EQUAL TO VALUE LISTED	
UPPER		LOWER		25%		50%		75%	
90%		95%							
STANDARD		DEVIATION							
00003#		SAMPLE DEPTH, FEET		7		356.00		143.07	
00011#		TEMPERATURE, WATER (DEG. F)		7		55.40		48.00	
00915		CALCIUM, DISSOLVED (MG/L AS CA)		6		99999.00		99999.00	
00925		MAGNESIUM, DISSOLVED (MG/L AS MG)		6		99999.00		99999.00	
00930*		SODIUM, DISSOLVED (MG/L AS NA)		6		99999.00		5.00	
00935*		POTASSIUM, DISSOLVED (MG/L AS K)		5		1.00		0.10	
00955*		SILICA, DISSOLVED (MG/L AS SiO2)		6		10.00		5.00	
01005		BARIUM, DISSOLVED (UG/L AS BA)		1		1.00		1.00	
01006*		ALUMINIUM (UG/L)		6		100.00		1.00	
01020*		BORON, DISSOLVED (UG/L AS B)		6		500.00		100.00	
01040*		COPPER, DISSOLVED (UG/L AS CU)		6		10.00		1.00	
01046*		IRON, DISSOLVED (UG/L AS FE)		6		50.00		10.00	
01049*		LEAD, DISSOLVED (UG/L AS PB)		2		10.00		0.10	
01056*		MANGANESE, DISSOLVED (UG/L AS MN)		6		100.00		1.00	
01060*		MOLYBDENUM, DISS (UG/L AS MO)		5		10.00		1.00	
01080*		STRONTIUM, DISSOLVED (UG/L AS SR)		6		100.00		100.00	
01130*		LITHIUM, DISSOLVED (UG/L AS LI)		5		100.00		1.00	

H20QASA-2

CORE-HOLE G-S M-2

AQUIFER L METHOD 3

REPORT DATE 03/10/77

PAGE 200

STANDARD

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER

OF

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

C1150* TITANIUM, DISSOLVED

(UG/L AS TI)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

END OF CORE-HOLE G-S M-2 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2		CCRE-HOLE G-S M-2		AQUIFER L METHOD - 3		REPORT DATE 03/10/77		PAGE 201							
PARAMETER DESCRIPTION		ANALYSES		MAXIMUM		MINIMUM		MEAN		STANDARD DEVIATION		WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED	
												UPPER		LOWER	
												25%		50%	
												75%		90%	
												95%			

H20JASA-2

CORE-HOLE G-S M-2

AQUIFER L METHOD 3

REPORT DATE 03/10/77

PAGE 202

PARAMETER DESCRIPTION ANALYSES

NUMBER OF

MINIMUM

MAXIMUM

MEAN

STANDARD DEVIATION

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

00930* SODIUM, DISSOLVED
(MG/L AS NA)

7

1100.00

190.00

261.75

1.89

462.77

148.10

170.27

261.79

402.52

592.64

746.90

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2

10.00

2.80

5.29

2.46

81.85

0.34

2.88

5.29

9.72

16.78

23.26

00940* CHLORIDE, DISSOLVED
(MG/L AS CL)

7

69.00

4.10

14.25

2.36

30.73

6.61

7.98

14.25

25.46

42.91

58.63

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

7

600.00

<4.00

246.23

6.30

1275.16

47.55

71.12

246.23

852.46

2604.18

5078.21

00950* FLUORIDE, TOTAL
(MG/L AS F)

7

13.00

0.20

0.89

5.48

4.09

0.20

0.28

0.89

2.82

7.92

14.68

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

7

19.00

5.10

9.17

1.67

14.47

5.81

6.50

9.17

12.94

17.65

21.24

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

7

<10.00

<10.00

<10.00

1.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

5

<1000.00

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

7

9359.96

10.00

280.13

9.46

2088.33

37.58

61.45

280.13

1276.92

4995.79

11295.29

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

7

<10.00

<10.00

<10.00

1.00

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

7

<50.00

<10.00

<14.72

1.97

01040* COPPER, DISSOLVED
(UG/L AS CU)

7

<100.00

<10.00

<71.97

2.39

01046* IRON, DISSOLVED
(UG/L AS FE)

7

7199.78

<50.00

827.26

8.89

5829.79

117.39

189.36

827.26

3614.10

13609.69

30075.99

01049* LEAD, DISSOLVED
(UG/L AS PB)

7

900.00

30.00

202.62

3.63

641.08

64.04

84.91

202.62

483.53

1057.07

1687.48

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

7

200.00

70.00

155.92

1.55

230.53

105.45

116.05

155.92

209.48

273.19

320.21

01060* POLYBENZENE, DISS
(UG/L AS MO)

1

100.00

100.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

5

30.00

20.00

21.69

1.20

26.72

17.61

19.19

21.69

24.51

27.37

29.23

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

00003#	SAMPLE DEPTH, FEET	1	354.60	354.60
00011#	TEMPERATURE, WATER (DEG. F)	1	55.40	55.40
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1	99999.00	99999.00
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1	99999.00	99999.00
00930	SODIUM, DISSOLVED (MG/L AS NA)	1	10.00	10.00
00955	SILICA, DISSOLVED (MG/L AS SIO2)	1	2.00	2.00
01006	ALUMINIUM (UG/L)	1	10.00	10.00
01020	BORON, DISSOLVED (UG/L AS B)	1	500.00	500.00
01040	COPPER, DISSOLVED (UG/L AS CU)	1	10.00	10.00
01046	IRON, DISSOLVED (UG/L AS FE)	1	20.00	20.00
01056	MANGANESE, DISSOLVED (UG/L AS MN)	1	1.00	1.00
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	100.00	100.00
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	10.00	10.00
01150	TITANIUM, DISSOLVED (UG/L AS TI)	1	1.00	1.00

END OF CORE-HOLE G-S M-2 AQUIFER L METHOD 3A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/16/75 THRU 07/16/75

--- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.00" ARE "MAJOR" CONCENTRATIONS

REPORT DATE 03/10/77 PAGE 206

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

50%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

H2045A-2 CCORE-HOLE G-S M-2 AQUIFER L METHOD 3A
NUMBER
CF

PARAMETER DESCRIPTION ANALYSES

00955 SILICA, DISSOLVED
(MG/L AS SIC2)

1

11.00

11.00

01000 ARSENIC, DISSOLVED
(UG/L AS AS)

1

<10.00

<10.00

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1

<1000.00

<1000.00

01020 BORON, DISSOLVED
(UG/L AS B)

1

19999.95

19999.95

01025 CADMIUM, DISSOLVED
(UG/L AS CD)

1

<10.00

<10.00

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1

<10.00

<10.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1

<100.00

<100.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1

5659.97

5659.97

01049 LEAD, DISSOLVED
(UG/L AS PB)

1

800.00

800.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1

60.00

60.00

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

30.00

30.00

01075 SILVER, DISSOLVED
(UG/L AS AG)

1

<10.00

<10.00

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1

1100.00

1100.00

01145 SELENIUM, DISSOLVED
(UG/L AS SE)

1

<10.00

<10.00

01503 GROSS ALPHA,
DISSOLVED (PC/L)

1

3.00

3.00

70507 PHOSPHORUS, TOTAL
CRTHO (MG/L AS P)

1

<0.10

<0.10

71846 NITROGEN, AMMONIA
DISS (MG/L AS NH4)

1

0.40

0.40

H20-ASA-2 CORE-HOLE G-S M-2 ANALYSES OF NUMBER OF ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED REPORT DATE 03/10/77 PAGE 207

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED REPORT DATE 03/10/77 PAGE 207

71851 NITROGEN, NITRATE DISS (MG/L AS NO3) 1 0.10 0.10
71890 MERCURY DISSOLVED (UG/L AS PG) 1 <2.00 <2.00

END OF CORE-HOLE G-S M-2 ANALYSES OF NUMBER OF ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED REPORT DATE 03/10/77 PAGE 207

--- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED		
						95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%
00003# SAMPLE DEPTH, FEET	2	1365.00	574.00	969.50	559.32	2671.34	-732.34	591.96	969.50	1347.04	1889.58
00011# TEMPERATURE, WATER (DEG. F)	2	42.62	41.36	41.99	0.89	44.70	39.28	41.39	41.99	42.59	43.45
00915 CALCIUM, DISSOLVED (MG/L AS CA)	2	99999.00	99999.00								
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	2	99999.00	10.00								
00930 SODIUM, DISSOLVED (MG/L AS NA)	2	99999.00	99999.00								
00935* POTASSIUM, DISSOLVED (MG/L AS K)	2	5.00	1.00	2.24	3.12	71.34	0.07	1.04	2.24	4.82	14.54
00955* SILICA, DISSOLVED (MG/L AS SI02)	2	20.00	15.00	17.32	1.23	32.16	9.33	15.10	17.32	19.87	24.20
01006* ALUMINIUM (UG/L)	2	100.00	50.00	70.71	1.63	314.16	15.92	50.79	70.71	98.44	158.36
01020* BORON, DISSOLVED (UG/L AS B)	2	500.00	500.00	500.00	1.00	500.00	500.00	500.00	500.00	500.00	500.00
01040* COPPER, DISSOLVED (UG/L AS CU)	2	50.00	50.00	50.00	1.00	50.00	50.00	50.00	50.00	50.00	50.00
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	<500.00	<500.00	<500.00	1.00						
01150* TITANIUM, DISSOLVED (UG/L AS TI)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.04

END OF CCRE-HOLE G-S M-2 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 10/27/74 THRU 10/28/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

CF
NUMBER

PARAMETER DESCRIPTION

CC003# SAMPLE DEPTH, FEET

2 1365.00 574.00 969.50 559.32 2671.34 -732.34 591.96 969.50 1347.04 1690.55 1889.58

00011# TEMPERATURE, WATER
(DEG. F)

2 42.62 41.36 41.99 0.89 44.70 39.28 41.39 41.99 42.59 43.13 43.45

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

2 1000.00 675.00 821.58 1.32 1914.03 352.66 681.03 821.58 991.14 1173.30 1297.86

00400# PH (STANDARD UNITS)

2 6.80 6.80 6.80 0.00 6.81 6.79 6.80 6.80 6.80 6.81 6.81

00440# BICARBONATE ICN
(MG/L AS HCO3)

2 480.00 360.00 415.69 1.23 771.93 223.85 362.36 415.69 476.67 539.55 580.90

00445# CARBONATE ICN (MG/L
AS CO3)

2 30.00 24.00 26.83 1.17 43.37 16.60 24.12 26.83 29.85 32.85 34.78

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

2 1165.00 425.00 703.65 2.04 6159.30 80.39 434.85 703.65 1138.61 1755.23 2273.73

00746# SULFIDE, DISSOLVED
(MG/L AS S)

2 1.70 <1.00 1.30 1.46 4.08 0.42 1.01 1.30 1.68 2.11 2.42

CC900# HARDNESS, TOTAL
(MG/L AS CaCO3)

2 196.00 58.00 106.62 2.37 1464.17 7.76 59.63 106.62 190.65 321.53 439.50

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

2 33.00 12.00 19.90 2.04 175.42 2.26 12.28 19.90 32.25 49.79 64.55

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

2 28.00 6.80 13.80 2.72 289.90 0.66 7.02 13.80 27.11 49.78 71.58

00930# SODIUM, DISSOLVED
(MG/L AS Na)

2 210.00 205.00 207.48 1.02 218.33 197.13 205.14 207.48 209.85 212.01 213.31

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

2 13.00 1.70 4.70 4.21 374.14 0.06 1.78 4.70 12.41 29.72 50.10

00940# CHLORIDE, DISSOLVED
(MG/L AS CL)

2 16.00 2.90 6.81 3.35 268.58 0.17 3.01 6.81 15.39 32.04 49.66

00945# SULFATE, DISSOLVED
(MG/L AS SO4)

2 470.00 96.00 212.41 3.07 6476.57 6.97 99.52 212.41 453.35 896.43 1347.67

00950# FLUORIDE, TOTAL
(MG/L AS F)

2 5.10 1.60 2.86 2.27 34.60 0.24 1.64 2.86 4.97 8.17 11.00

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

2 22.00 10.00 14.83 1.75 80.90 2.72 10.18 14.83 21.61 20.51 37.11

PARAMETER DESCRIPTION	ANALYSES NUMBER	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 95%
C1000* ARSENIC, DISSOLVED (UG/L AS AS)	2	10.00	10.00	10.00	1.00	10.07 9.93	10.00 10.02 10.03 10.04
01020* BORON, DISSOLVED (UG/L AS B)	2	500.00	300.00	387.30	1.44	1162.49 129.03	387.30 494.24 615.42 701.64
01025* CADMIUM, DISSOLVED (UG/L AS CD)	2	<10.00	<10.00	<10.00	1.00		
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	2	<10.00	<10.00	<10.00	1.00		
01040* COPPER, DISSOLVED (UG/L AS CU)	2	200.00	100.00	141.42	1.63	628.33 31.83	141.42 196.88 265.10 316.72
01046* IRON, DISSOLVED (UG/L AS FE)	2	500.00	<50.00	158.11	5.09	22411.39 1.12	158.11 474.53 1274.91 2302.28
01049* LEAD, DISSOLVED (UG/L AS PB)	2	50.00	50.00	50.00	1.00	50.00 50.00	50.00 50.00 50.00 50.00
01056* MANGANESE, DISSOLVED (UG/L AS MN)	2	<50.00	<50.00	<50.00	1.00		
01106* ALUMINIUM, DISSOLVED (UG/L AS AL)	2	<100.00	<100.00	<100.00	1.00		
C1130* LITHIUM, DISSOLVED (UG/L AS LI)	2	<500.00	<500.00	<500.00	1.00		
01145* SELENIUM, DISSOLVED (UG/L AS SE)	2	<10.00	<10.00	<10.00	1.00		
70507* PHOSPHORUS, TOTAL CRTHC (MG/L AS P)	2	6.50	0.60	1.97	5.39	332.52 0.01	0.63 1.97 6.16 17.12 31.56
71830* HYDROXIDE (MG/L)	2	<0.10	<0.10	<0.10	1.00		
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	2	0.30	0.20	0.24	1.33	0.59 0.10	0.20 0.24 0.30 0.35 0.39
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	2	0.10	0.10	0.10	1.00	0.10 0.10	0.10 0.10 0.10 0.10 0.10

END OF CORE-HOLE G-S M-2 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 10/27/74 THRU 10/28/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CCRE-HOLE G-S M-2

AQUIFER U METHOD 3

OF

PARAMETER DESCRIPTION ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATION

REPORT DATE 03/10/77

PAGE 211

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

00003#	SAMPLE DEPTH, FEET	8	236.42	17.85	205.50	75.88	267.37	143.64	154.28	205.50	256.73	302.79	350.33
00011#	TEMPERATURE, WATER (DEG. F)	7	55.40	46.80	51.37	3.09	54.14	48.61	49.28	51.37	53.46	55.34	56.46
00915	CALCIUM, DISSOLVED (MG/L AS CA)	7	99999.00	99999.00									
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	7	99999.00	99999.00									
00930*	SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	5.00	5.74	1.36	8.20	4.02	4.66	5.74	7.08	8.55	9.56
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	6	1.00	0.10	0.15	2.56	0.38	0.06	0.08	0.15	0.28	0.49	0.69
00955*	SILICA, DISSOLVED (MG/L AS SIO2)	7	20.00	2.00	6.52	2.31	13.76	3.09	3.71	6.52	11.46	19.03	25.78
01006*	ALUMINIUM (UG/L)	8	500.00	10.00	21.75	4.02	67.60	7.00	8.50	21.75	55.61	129.39	214.40
01020*	BORON, DISSOLVED (UG/L AS B)	8	500.00	100.00	237.14	1.98	413.21	136.09	149.73	237.14	375.55	567.85	727.13
01040*	COPPER, DISSOLVED (UG/L AS CU)	7	10.00	5.00	9.06	1.30	11.45	7.17	7.59	9.06	10.81	12.67	13.94
01048*	IRON, DISSOLVED (UG/L AS FE)	7	1000.00	10.00	51.70	4.54	200.09	13.41	18.67	51.79	143.71	359.81	622.91
01049*	LEAD, DISSOLVED (UG/L AS PB)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	40.05
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	7	200.00	1.00	10.00	4.80	40.63	2.46	3.47	10.00	28.82	74.67	131.94
01060*	MOLYBDENUM, DISS (UG/L AS MO)	3	10.00	1.00	2.15	3.78	24.77	0.19	0.89	2.15	5.28	11.84	19.19
01090*	STRONTIUM, DISSOLVED (UG/L AS SR)	6	100.00	100.00	100.00	1.00	100.49	99.51	99.67	100.00	100.33	100.63	100.81
01090*	ZINC, DISSOLVED (UG/L AS ZN)	3	50.00	1.00	7.94	7.14	294.04	0.21	2.11	7.94	29.93	98.71	201.53
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	5	500.00	1.00	3.47	16.11	84.05	0.14	0.53	3.47	22.62	122.23	355.22

200ASA-2 CCRE-HOLE G-S M-2 M-2 OF ANALYSES MAXIMUM MINIMUM STANDARD DEVIATION MEAN 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	STANDARD DEVIATION	MEAN	95% CONFIDENCE LIMITS ON MEAN	25%	50%	75%	90%	95%
01150* TITANIUM, DISSOLVED (UG/L AS TI)	4	10.00	1.00	3.16	1.78	8.79	0.36	0.82	1.78	3.87	7.78
05503* RADIUM (UG/L)	2	300.00	100.00	2.17	173.20	1841.14	16.29	102.52	173.20	292.61	468.89

END OF CCRE-HOLE G-S M-2 M-2 OF ANALYSES MAXIMUM MINIMUM STANDARD DEVIATION MEAN 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95%

--- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20-ASA-2

CORE-HOLE G-S M-2
NUMBER
OF
ANALYSES

AQUIFER U METHOD 3

REPORT DATE 03/10/77

PAGE 213

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	8	236.42	17.85	205.50	75.88	267.37	143.64	154.28	205.50	256.73	302.79	330.33
00011#	TEMPERATURE, WATER (DEG. F)	7	55.40	46.80	51.37	3.09	54.14	48.61	49.28	51.37	53.46	55.34	56.46
00095#	CONDUCTIVITY (UMHOS AT 25 DEG C)	8	2650.00	1450.00	1825.33	1.20	2124.57	1538.23	1609.74	1825.33	2069.78	2317.46	2479.51
00340#	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	150.00	20.00	54.77	4.16	4180.74	0.72	20.94	54.77	143.29	340.26	570.72
00400#	PH (STANDARD UNITS)	8	7.20	6.50	6.77	0.24	6.97	6.58	6.61	6.77	6.94	7.09	7.18
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)	8	530.00	485.00	506.53	1.04	523.53	490.07	492.86	506.53	520.57	533.53	541.43
00440#	BICARBONATE ION (MG/L AS HCO3)	8	650.00	535.00	604.47	1.07	638.21	572.51	577.89	604.47	632.27	658.36	674.47
00445#	CARBONATE ION (MG/L AS CO3)	8	84.00	<0.10	0.77	17.76	8.02	0.07	0.11	0.77	5.35	30.69	87.21
00540#	DISSOLVED SOLIDS (AOE AT 178 DEG C, M)	8	1700.00	1020.00	1357.23	1.16	1532.10	1202.31	1227.65	1357.23	1500.48	1642.17	1733.21
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.20	0.20									
00613#	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	2	0.20	<0.02	0.06	5.09	8.96	0.00	0.02	0.06	0.19	0.51	0.92
00691#	CARBON, ORGANIC, DISS (MG/L AS C)	7	10.00	4.20	7.59	1.37	10.05	5.73	6.14	7.59	9.36	11.35	12.73
00720#	CYANIDE (MG/L AS CN)	8	<0.01	<0.01	<0.01	1.00							
00740#	SULFIDE, DISSOLVED (MG/L AS S)	2	0.60	<0.10	0.24	3.55	11.57	0.01	0.10	0.24	0.58	1.24	1.97
00900#	HARDNESS, TOTAL (MG/L AS CaCO3)	7	790.00	325.00	681.80	1.39	913.87	508.66	546.49	681.80	850.61	1037.82	1168.93
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)	8	155.00	9.80	61.42	2.26	119.59	31.55	35.38	61.42	106.63	175.12	235.60
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)	8	155.00	73.00	128.11	1.27	155.98	105.22	108.84	128.11	150.79	174.59	190.58

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

00930*	SODIUM, DISSOLVED (MG/L AS NA)	8	310.00	140.00	204.02	1.27	248.62	167.42	173.22	204.02	240.31	278.41	304.03
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	5.00	1.40	2.65	2.46	40.92	0.17	1.44	2.65	4.86	8.39	11.63
00940*	CHLORIDE, DISSOLVED (MG/L AS CL)	8	64.00	3.40	13.44	2.46	28.04	6.45	7.32	13.44	24.71	42.70	59.23
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	8	680.00	360.00	571.45	1.23	676.83	482.49	496.74	571.45	657.40	745.67	804.03
00950*	FLUORIDE, TOTAL (MG/L AS F)	8	1.90	0.10	0.26	2.56	0.55	0.12	0.14	0.26	0.48	0.85	1.20
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	8	38.00	7.50	21.33	1.65	32.13	14.16	15.19	21.33	29.94	40.62	48.75
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	8	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	6	<1000.00	<1000.00	<1000.00	1.00							
01020*	BORON, DISSOLVED (UG/L AS B)	8	400.00	<10.00	145.39	3.96	446.74	47.32	57.40	145.39	368.27	849.44	1400.21
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	6	<10.00	<10.00	<10.00	1.00							
01030*	CHROMIUM, DISSOLVED (UG/L AS CH)	6	<50.00	<10.00	<14.03	1.90							
01040*	COPPER, DISSOLVED (UG/L AS CU)	8	<100.00	<10.00	<61.32	2.52							
01046*	IRON, DISSOLVED (UG/L AS FE)	8	16999.95	<50.00	1308.24	12.73	10408.55	164.43	234.95	1308.24	7284.49	34118.22	85903.94
01049*	LEAD, DISSOLVED (UG/L AS PB)	8	700.00	40.00	135.25	3.03	333.99	54.77	63.99	135.25	285.87	560.37	838.06
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	8	380.00	60.00	180.94	1.96	313.59	104.40	114.76	180.94	285.28	429.62	548.81
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
01065*	NICKEL, DISSOLVED (UG/L AS NI)	6	40.00	20.00	30.86	1.29	39.81	23.92	25.98	30.86	36.66	42.79	46.94

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION UPPER LOWER 25% 50% 75% 90% 95%

00003*	SAMPLE DEPTH, FEET	3	1650.00	1580.00	1621.33	36.66	1688.68	1553.98	1596.59	1621.33	1646.08	1668.33	1681.64
00011*	TEMPERATURE, WATER (DEG. F)	3	43.34	42.80	42.98	0.31	43.55	42.41	42.77	42.98	43.19	43.38	43.49
00915*	CALCIUM, DISSOLVED (MG/L AS CA)	2	5.00	2.00	3.16	1.91	22.71	0.44	2.04	3.16	4.50	7.26	9.18
00925*	MAGNESIUM, DISSOLVED (MG/L AS MG)	2	5.00	5.00	5.00	1.00	5.02	4.98	4.99	5.00	5.01	5.01	5.01
00930	SODIUM, DISSOLVED (MG/L AS NA)	2	99999.00	99999.00									
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	0.10	0.10									
00955*	SILICA, DISSOLVED (MG/L AS SI02)	2	5.00	5.00	5.00	1.00	5.02	4.98	4.99	5.00	5.01	5.01	5.01
01005	BARIUM, DISSOLVED (UG/L AS BA)	1	100.00	100.00									
01006*	ALUMINIUM (UG/L)	2	100.00	10.00	31.62	5.09	4482.29	0.22	10.54	31.62	94.91	254.98	460.46
01020*	BORON, DISSOLVED (UG/L AS B)	2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	2	10.00	5.00	7.07	1.63	31.42	1.59	5.08	7.07	9.84	13.25	15.84
01046*	IRON, DISSOLVED (UG/L AS FE)	2	10.00	10.00	10.00	1.00	10.07	9.93	9.98	10.00	10.02	10.03	10.04
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	100.00	100.00									

END OF CORE-HOLE G-S M-3 AWIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/08/74 THRU 11/08/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

CORE-POLE G-S M-3													
WET SAMPLES													
95% CONFIDENCE													
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H20QSA-2

CCRE-HOLE G-S M-3
NUMBER OF
ANALYSES

AQUIFER C METHOD 1

REPORT DATE 03/10/77

PAGE 218

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

3

23.00

13.00

17.52

1.33

29.65

10.36

14.45

17.52

21.26

25.29

28.06

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

2

<10.00

<10.00

<10.00

1.00

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

2

70.00

40.00

52.91

1.49

176.39

15.87

40.51

52.91

69.12

87.88

101.46

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

2

<50.00

<50.00

<50.00

1.00

01040* COPPER, DISSOLVED
(UG/L AS CU)

2

<100.00

<100.00

<100.00

1.00

01046* IRON, DISSOLVED
(UG/L AS FE)

3

1300.00

480.00

812.63

1.65

2038.15

324.00

579.65

812.63

1139.25

1543.71

1851.28

01049* LEAD, DISSOLVED
(UG/L AS PB)

2

120.00

70.00

91.65

1.46

292.26

28.74

70.86

91.65

118.54

149.39

171.56

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1

<50.00

<50.00

01090* ZINC, DISSOLVED
(UG/L AS ZN)

2

900.00

400.00

600.00

1.77

3434.70

104.81

407.43

600.00

883.59

1251.45

1541.04

01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

2

<100.00

<100.00

<100.00

1.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

2

<10.00

<10.00

<10.00

1.00

70507* PHOSPHORUS, TOTAL
CRTHO (MG/L AS P)

2

8.20

1.80

3.84

2.92

100.32

0.15

1.86

3.84

7.92

15.19

22.42

71830* HYDROXIDE (MG/L)

2

<0.10

<0.10

<0.10

1.00

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

2

<0.10

<0.10

<0.10

1.00

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3

1.10

0.40

0.68

1.66

1.71

0.27

0.48

0.68

0.95

1.29

1.55

71890* MERCURY DISSOLVED
(UG/L AS HG)

2

<10.00

<10.00

<10.00

1.00

END OF CORE-HOLE G-S M-3 AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/08/74 THRU 11/08/74

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LCG TRANSFORM

H200ASA-2 CORE-HOLE G-S M-3 NUMBER 1

CF ANALYSES MAXIMUM MINIMUM MEAN

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

STANDARD
DEVIATION

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2002 SA-2

CORE-HOLE G-S M-3
NUMBER

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

4 353.85 138.13 192.81 107.36 341.83 43.80 120.34 192.81 265.28 330.45 369.42

00011# TEMPERATURE, WATER
(DEG. F)

4 54.50 48.80 52.12 2.39 55.45 48.80 50.51 52.12 53.74 55.19 56.06

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

3 99999.00 10.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

3 99999.00 10.00

00930# SODIUM, DISSOLVED
(MG/L AS NA)

3 99999.00 5.00 7.07 1.63 31.42 1.59 5.08 7.07 9.84 13.25 15.84

00935# PCTASSIUM, DISSOLVED
(MG/L AS K)

3 1.00 0.01 0.22 14.28 28.49 0.00 0.04 0.22 1.30 4.51 17.09

00955# SILICA, DISSOLVED
(MG/L AS SIO2)

3 5.00 2.00 2.71 1.70 7.17 1.03 1.90 2.71 3.88 5.35 6.48

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1 1.00 1.00

01006# ALUMINIUM (UG/L)

3 100.00 10.00 21.54 3.78 247.74 1.87 8.78 21.54 52.85 115.44 191.90

01020# BORON, DISSOLVED
(UG/L AS B)

3 500.00 200.00 368.40 1.70 973.63 139.40 257.78 368.40 526.50 725.86 879.53

01040# COPPER, DISSOLVED
(UG/L AS CU)

3 10.00 1.00 2.15 3.78 24.77 0.19 0.88 2.15 5.28 11.84 19.19

01046# IRON, DISSOLVED
(UG/L AS FE)

3 50.00 10.00 21.54 2.24 94.94 4.89 12.49 21.54 37.15 60.65 81.30

01049 LEAD, DISSOLVED
(UG/L AS PB)

1 10.00 10.00

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

3 10.00 1.00 3.68 3.26 32.27 0.42 1.66 3.68 8.18 16.75 25.72

01060# MOLYBDENUM, DISS
(UG/L AS MO)

2 2.00 1.00 1.41 1.63 6.28 0.32 1.02 1.41 1.97 2.65 3.17

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

3 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1 1.00 1.00

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CORE-HOLE G-S M-3

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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NUMBER
OF

PARAMETER DESCRIPTION ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATION

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

90%

95%

50%

75%

25%

UPPER

LOWER

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

2

10.00

1.00

3.16

5.09

448.23

0.02

1.05

3.16

9.49

25.50

46.05

C1150 TITANIUM, DISSOLVED
(UG/L AS TI)

1

1.00

1.00

END OF CORE-HOLE G-S M-3 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/16/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	NET SAMPLES 95% CONFIDENCE LIMITS ON MEAN			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
					UPPER	LOWER		25%	50%	75%	90%
00003# SAMPLE DEPTH, FEET	4 353.85	138.13	192.81	107.36	341.83	43.80		120.34	192.81	265.28	330.45
00011# TEMPERATURE, WATER (DEG. F)	4 54.50	48.80	52.12	2.39	55.45	48.80		50.51	52.12	53.74	55.19
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	4 1445.00	1145.00	1222.56	1.12	1427.24	1047.23		1133.90	1222.56	1318.15	1410.47
00340# CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2 45.00	22.00	31.46	1.66	146.72	6.75		22.36	31.46	44.27	60.19
00400# PH (STANDARD UNITS)	4 8.00	6.70	7.22	0.56	8.00	6.45		6.85	7.22	7.60	7.94
00410# ALKALINITY, TOTAL (MG/L AS CACO3)	4 675.00	444.00	499.03	1.22	660.90	376.80		435.30	499.03	572.08	646.87
00440# BICARBONATE ION (MG/L AS HCO3)	4 825.00	425.00	532.90	1.35	806.72	352.01		435.58	532.90	651.95	791.57
00445# CARBONATE ION (MG/L AS CC3)	4 120.00	<0.10	16.06	29.81	1787.17	0.14		1.62	16.06	158.83	1247.05
00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	4 1090.00	820.00	950.18	1.12	1116.71	808.48		878.41	950.18	1027.81	1103.03
00613# NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	2 0.40	<0.02	0.09	8.32	56.33	0.00		0.02	0.09	0.37	1.35
00681# CARBON, ORGANIC, DISS (MG/L AS C)	4 19.00	8.40	10.95	1.45	18.41	6.51		8.50	10.95	14.10	17.69
00720# CYANIDE (MG/L AS CN)	4 <0.01	<0.01	<0.01	1.00							
00746# SULFIDE, DISSOLVED (MG/L AS S)	2 0.60	0.40	0.49	1.33	1.17	0.20		0.40	0.49	0.59	0.71
00900# HARDNESS, TOTAL (MG/L AS CACO3)	3 230.00	76.00	147.88	1.80	434.49	50.33		99.52	147.88	219.73	313.71
00915# CALCIUM, DISSOLVED (MG/L AS CA)	4 29.00	6.60	11.46	1.92	28.39	4.63		7.38	11.46	17.81	26.48
00925# MAGNESIUM, DISSOLVED (MG/L AS MG)	4 50.00	9.60	22.77	2.22	69.09	7.50		13.27	22.77	39.07	63.48
00930# SODIUM, DISSOLVED (MG/L AS NA)	4 350.00	265.00	308.59	1.20	356.81	239.99		273.08	308.59	348.73	399.26

H20QASA-2

CCRE-HOLE G-S M-3
NUMBER
OF
ANALYSES

AQUIFER L METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

00935* POTASSIUM, DISSOLVED

(MG/L AS K)

2

19.00

1.40

5.16

6.32

1410.20

0.02

1.49

5.16

17.91

54.85

107.13

00940* CHLORIDE, DISSOLVED

(MG/L AS CL)

4

185.00

6.90

27.55

4.38

213.98

3.55

10.16

27.55

74.65

182.97

312.76

00945* SULFATE, DISSOLVED

(MG/L AS SO4)

4

275.00

20.00

83.17

3.15

408.03

16.95

38.38

83.17

180.25

361.36

547.75

00950* FLUORIDE, TOTAL

(MG/L AS F)

4

18.00

4.80

9.23

1.90

22.47

3.79

5.99

9.23

14.23

20.99

26.49

00955* SILICA, DISSOLVED

(MG/L AS SiO2)

4

28.00

1.90

7.91

3.92

52.61

1.19

3.15

7.91

19.88

45.52

74.72

01000* ARSENIC, DISSOLVED

(UG/L AS AS)

4

<10.00

<10.00

<10.00

1.00

01005* BARIUM, DISSOLVED

(UG/L AS BA)

2

<1000.00

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED

(UG/L AS B)

4

700.00

200.00

511.77

1.87

1220.82

214.54

335.32

511.77

781.08

1142.40

1434.05

01025* CADMIUM, DISSOLVED

(UG/L AS CD)

4

<10.00

<10.00

<10.00

1.00

01030* CHROMIUM, DISSOLVED

(UG/L AS CR)

4

20.00

<10.00

11.89

1.41

19.24

7.35

9.41

11.89

15.03

18.54

21.03

01040* COPPER, DISSOLVED

(UG/L AS CU)

4

<100.00

<100.00

<100.00

1.00

01046* IRON, DISSOLVED

(UG/L AS FE)

4

15999.95

<50.00

861.95

12.16

27614.81

26.90

159.68

861.95

4652.66

21121.25

52472.02

01049* LEAD, DISSOLVED

(UG/L AS PB)

4

2300.00

20.00

400.62

8.41

7697.64

20.85

95.17

400.62

1686.45

6142.26

13305.50

01056* MANGANESE, DISSOLVED

(UG/L AS MN)

4

300.00

<50.00

101.23

2.18

297.88

34.40

59.89

101.23

171.10

274.31

363.77

01060* MOLYBDENUM, DISS

(UG/L AS MO)

1

<100.00

<100.00

<10.00

1.91

227.07

4.40

20.42

31.62

48.97

72.57

91.81

01065* NICKEL, DISSOLVED

(UG/L AS NI)

2

50.00

20.00

31.62

1.91

227.07

4.40

20.42

31.62

48.97

72.57

91.81

01075* SILVER, DISSOLVED

(UG/L AS AG)

2

<10.00

<10.00

<10.00

1.00

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%
01150* TITANIUM, DISSOLVED (UG/L AS TI)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
09503 RADIUM (UG/L)	1	100.00	100.00										

END OF CORE-HOLE G-S M-3 ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER 25% 50% 75% 90% 95% REPORT DATE 03/10/77 PAGE 226

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CCRE-HOLE G-S M-3
NUMBER
OF
ANALYSES

AQUIFER L METHOD 3A

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

5 140.00 134.11 136.98 2.26 139.58 134.38 135.45 136.98 138.51 139.88 140.70

00011# TEMPERATURE, WATER
(DEG. F)

5 51.60 47.80 48.98 1.54 50.75 47.21 47.94 48.98 50.02 50.95 51.51

00095* CONDUCTIVITY (UMHOS
AT 25 DEG C)

5 1550.00 1420.00 1483.29 1.03 1542.65 1426.20 1449.50 1483.29 1517.86 1549.63 1568.95

00400# PH (STANDARD UNITS)

5 7.60 7.00 7.28 0.23 7.54 7.02 7.13 7.28 7.43 7.57 7.66

00410* ALKALINITY, TOTAL
(MG/L AS CaCO3)

5 405.00 294.00 354.83 1.16 419.44 300.17 321.64 354.83 391.45 427.59 450.78

00440* BICARBONATE ION
(MG/L AS HCO3)

5 495.00 230.00 339.24 1.39 496.44 231.81 271.28 339.24 424.21 518.66 584.92

00445* CARBONATE ION (MG/L
AS CO3)

5 150.00 63.00 89.09 1.43 134.37 59.07 70.00 89.09 113.40 140.87 160.38

00540* DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

5 1130.00 760.00 994.65 1.17 1191.80 830.11 894.47 994.65 1106.05 1216.84 1248.33

00681* CARBON, ORGANIC,
DISS (MG/L AS C)

4 17.00 7.00 11.07 1.50 19.41 6.31 8.42 11.07 14.54 18.60 21.54

00720* CYANIDE (MG/L AS CN)

5 <0.01 <0.01 <0.01 1.00

00900* HARDNESS, TOTAL
(MG/L AS CaCO3)

5 350.00 255.00 284.21 1.13 327.32 246.77 261.59 284.21 308.78 322.68 347.85

00915* CALCIUM, DISSOLVED
(MG/L AS Ca)

5 26.00 9.80 14.92 1.61 25.72 8.66 10.84 14.92 20.54 27.38 32.52

00925* MAGNESIUM, DISSOLVED
(MG/L AS Mg)

5 70.00 52.00 59.30 1.12 67.48 52.11 54.96 59.30 63.97 68.49 71.34

00930* SODIUM, DISSOLVED
(MG/L AS Na)

5 310.00 230.00 285.35 1.13 328.69 247.73 262.62 285.35 310.05 334.08 349.33

00940* CHLORIDE, DISSOLVED
(MG/L AS Cl)

5 20.00 7.00 14.15 1.51 22.75 8.80 10.70 14.15 18.69 24.02 27.91

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

5 425.00 380.00 409.69 1.04 430.70 389.61 397.78 409.69 421.95 433.29 440.22

00950* FLUORIDE, TOTAL
(MG/L AS F)

5 4.00 2.20 3.05 1.26 4.05 2.36 2.64 3.09 3.62 4.18 4.55

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00955*	SILICA, DISSOLVED (MG/L AS SIO2)	5	4.30	<0.10	1.16	4.18	6.00	0.22	0.44	1.16	3.04	7.24	12.17
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	5	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	5	<1000.00	<1000.00	<1000.00	1.00							
01020*	BORON, DISSOLVED (UG/L AS B)	5	5390.98	40.00	282.97	7.01	2653.74	30.17	76.04	282.97	1053.03	3432.75	6959.02
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	5	<10.00	<10.00	<10.00	1.00							
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	5	<50.00	<10.00	<13.80	2.05							
01040*	COPPER, DISSOLVED (UG/L AS CU)	5	100.00	<10.00	63.10	2.80	206.15	19.31	31.49	63.10	126.43	236.22	343.29
01046*	IRON, DISSOLVED (UG/L AS FE)	5	2000.00	<50.00	813.05	4.84	4982.02	132.69	280.50	813.05	2356.71	6136.72	10876.55
01049*	LEAD, DISSOLVED (UG/L AS PB)	5	200.00	50.00	87.05	2.14	208.42	36.36	52.14	87.05	145.34	230.43	303.56
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	5	50.00	<50.00	56.24	1.30	76.08	41.57	47.09	56.24	67.16	78.77	86.66
01065*	NICKEL, DISSOLVED (UG/L AS NI)	5	40.00	10.00	20.00	1.63	35.14	11.38	14.37	20.00	27.84	37.49	44.79
01075*	SILVER, DISSOLVED (UG/L AS AG)	5	<10.00	<10.00	<10.00	1.00							
01090*	ZINC, DISSOLVED (UG/L AS ZN)	5	200.00	30.00	90.29	1.98	198.50	41.07	56.86	90.29	143.38	217.32	278.68
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	1	<100.00	<100.00									
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	5	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	4	4.90	2.50	3.35	1.32	4.94	2.27	2.77	3.35	4.04	4.80	5.31
03501	GROSS BETA, DISSOLVED (PC/L)	1	5.00	5.00									

CORE-HOLE G-S M-3 ANNUF L METHOD 3A				WET SAMPLES		THEORETICAL PROBABILITY OF BEING LESS							
PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN		THAN OR EQUAL TO VALUE LISTED					
						UPPER	LOWER	25%	50%	75%	90%	95%	
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	5	<0.10	<0.01	<0.06	2.80								
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	5	2.50	0.10	0.36	3.33	1.43	0.09	0.16	0.36	0.81	1.68	2.60	
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	5	1.00	0.10	0.30	2.34	0.80	0.11	0.17	0.30	0.53	0.89	1.22	
71890* MERCURY DISSOLVED (UG/L AS Hg)	5	<10.00	<2.00	<7.25	2.05								

END OF CORE-HOLE G-S M-3 AQUIFER L METHOD 3A WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 07/16/75

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.00" ARE "MAJOR" CONCENTRATIONS

H2004SA-2

CORE-HOLE G-S M-3
NUMBER OF ANALYSES

AQUIFER U METHOD 1

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

90%

75%

50%

25%

UPPER
LIMITS ON MEAN
LOWER

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

2 1124.00 477.00 800.50 2192.52 -591.52 491.69 800.50 1109.31 1397.01 1553.08

00011# TEMPERATURE, WATER
(DEG. F)

2 42.62 42.26 42.44 0.25 43.21 41.67 42.27 42.44 42.61 42.77 42.86

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

2 99999.00 1.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

2 99999.00 99999.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

2 99999.00 99999.00

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

2 0.10 0.10 0.10 1.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10

00955# SILICA, DISSOLVED
(MG/L AS SI02)

2 10.00 5.00 7.07 1.63 31.42 1.59 5.08 7.07 9.84 13.25 15.84

01005# BARIUM, DISSOLVED
(UG/L AS BA)

2 50.00 10.00 22.36 3.12 713.38 0.70 10.37 22.36 48.21 96.19 145.39

01006# ALUMINIUM (UG/L)

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

01020# BORON, DISSOLVED
(UG/L AS B)

2 1000.00 <20.00 141.42 15.90639513.25 0.03 21.86 141.42 915.01 4905.11 13388.73

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1 10.00 10.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1 1.00 1.00

01046# IRON, DISSOLVED
(UG/L AS FE)

2 50.00 10.00 22.36 3.12 713.38 0.70 10.37 22.36 48.21 96.19 145.39

01049 LEAD, DISSOLVED
(UG/L AS PB)

1 10.00 10.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 10.00 10.00

01060# STRONTIUM, DISSOLVED
(UG/L AS SR)

2 500.00 100.00 223.61 3.12 7133.66 7.01 103.72 223.61 482.06 961.84 1453.84

END OF CORE-HOLE G-S M-3 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/04/74 THRU 11/06/74

* -- ESTIMATE USING METHOD CF MCMENTS

-- NC LOG TRANSFORM

CORE-HOLE G-S M-3

NUMBER

OF

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

UPPER LOWER

25%

50%

75%

90%

95%

STANDARD
DEVIATION

MEAN

H2QCASA-2

CCRE-HCLE G-S M-3
OF
ANALYSES

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

AQUIFER U METHOD 1

ANALYSES

00003# SAMPLE DEPTH, FEET

2 1124.00 477.00 800.50 457.50 2192.52 -591.52 491.69 800.50 1109.31 1387.01 1553.08

00011# TEMPERATURE, WATER
(DEG. F)

2 42.62 42.26 42.44 0.25 43.21 41.67 42.27 42.44 42.61 42.77 42.86

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

2 865.00 775.00 818.76 1.08 1037.74 645.99 776.82 818.76 862.96 904.74 930.69

00400# PH (STANDARD UNITS)

2 7.00 6.80 6.90 0.14 7.33 6.47 6.80 6.90 7.00 7.08 7.13

00440# BICARBONATE ION
(MG/L AS HCO3)

2 720.00 330.00 487.44 1.74 2611.37 90.99 335.90 487.44 707.35 998.68 1207.87

00445# CARBONATE ION (MG/L
AS CO3)

2 13.00 6.20 8.98 1.69 44.16 1.83 6.31 8.98 12.78 17.57 21.24

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

2 1050.00 690.00 851.17 1.35 2100.53 344.91 696.60 851.17 1040.04 1245.41 1387.13

00746# SULFIDE, DISSOLVED
(MG/L AS S)

2 0.70 0.30 0.46 1.82 2.94 0.07 0.31 0.46 0.69 0.99 1.23

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

2 260.00 82.00 146.01 2.26 1748.37 12.19 84.18 146.01 253.28 415.62 558.90

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

2 51.00 13.00 25.75 2.63 487.46 1.36 13.41 25.75 49.44 68.90 126.26

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

2 33.00 12.00 19.90 2.04 175.42 2.26 12.28 19.90 32.25 49.79 64.55

00930# SODIUM, DISSOLVED
(MG/L AS Na)

2 270.00 260.00 264.95 1.03 286.96 244.63 260.30 264.95 269.68 274.01 276.63

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

2 <1.00 <1.00 <1.00 1.00

00940# CHLORIDE, DISSOLVED
(MG/L AS Cl)

2 38.00 21.00 28.25 1.52 101.19 7.89 21.28 28.25 37.49 48.36 56.31

00945# SULFATE, DISSOLVED
(MG/L AS SO4)

2 360.00 120.00 207.85 2.17 2209.37 19.55 123.03 207.85 351.13 562.67 745.98

00950# FLUORIDE, TOTAL
(MG/L AS F)

2 12.00 4.00 6.93 2.17 73.65 0.65 4.10 6.93 11.70 18.76 24.87

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

2 23.00 17.00 19.77 1.24 37.89 10.32 17.12 19.77 22.84 26.01 28.10

PZ0025A-2	CCRE-HOLE G-S M-3 NUMBER OF ANALYSES	AQUIFER U METHOD	1	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				PAGE	
						UPPER	LOWER	25%	50%	75%	90%		95%
C1000*	ARSENIC, DISSOLVED (UG/L AS AS)	2	<10.00	<10.00	1.00								
D1025*	CADMIUM, DISSOLVED (UG/L AS CD)	2	<10.00	<10.00	1.00								
C1030*	CHROMIUM, DISSOLVED (UG/L AS CR)	2	<50.00	<50.00	1.00								
C1040*	COPPER, DISSOLVED (UG/L AS CU)	2	<100.00	<100.00	1.00								
D1040*	IRON, DISSOLVED (UG/L AS FE)	2	60.00	199.00	5.45	34626.33	1.14	63.36	199.00	625.03	1749.37	3237.32	
D1049*	LEAD, DISSOLVED (UG/L AS PB)	2	<50.00	<50.00	1.00								
D1090*	ZINC, DISSOLVED (UG/L AS ZN)	2	<500.00	100.00	223.61	3.12	7133.66	7.01	103.72	223.61	482.06	661.84	1453.84
D1106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	<100.00	<100.00	1.00								
D1145*	SELENIUM, DISSOLVED (UG/L AS SE)	2	<10.00	<10.00	1.00								
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	2	<0.10	<0.10	1.00								
71830*	HYDROXIDE (MG/L)	2	<0.10	<0.10	1.00								
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	2	<0.10	<0.10	1.00								
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	2	0.60	0.20	0.25	2.17	3.68	0.03	0.21	0.35	0.59	0.94	1.24
71890*	MERCURY DISSOLVED (UG/L AS HG)	2	<10.00	<10.00	1.00								

END OF CORE-HOLE G-S M-3 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/04/74 THRU 11/06/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- -- 3-D PLATE USING RE
W -- 3-D LOG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	SPECTROGRAPHIC SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER					THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED		
							25%	50%	75%	90%	95%			
00003#	SAMPLE DEPTH, FEET	8	221.98	18.57	46.23	71.03	104.13	-11.68	-1.72	46.23	94.17	137.28	163.06	
00011#	TEMPERATURE, WATER (DEG. F)	6	52.00	46.60	48.72	2.13	50.47	46.98	47.28	48.72	50.17	51.46	52.24	
00915	CALCIUM, DISSOLVED (MG/L AS CA)	7	99999.00	99999.00										
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	7	99999.00	99999.00										
00930*	SODIUM, DISSOLVED (MG/L AS NA)	7	99999.00	10.00	10.00	1.00	10.02	9.98	9.99	10.00	10.01	10.03	10.03	
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	6	1.00	0.10	0.41	3.10	1.28	0.13	0.19	0.41	0.89	1.76	2.66	
00955*	SILICA, DISSOLVED (MG/L AS SI02)	7	5.00	2.00	3.85	1.56	5.74	2.58	2.85	3.85	5.20	6.83	8.03	
01006*	ALUMINIUM (UG/L)	7	100.00	10.00	30.58	2.95	80.52	11.61	14.72	30.58	63.52	142.60	181.65	
01020*	BORON, DISSOLVED (UG/L AS B)	7	500.00	100.00	213.17	1.93	384.43	118.20	136.56	213.17	332.74	496.61	630.97	
01040*	COPPER, DISSOLVED (UG/L AS CU)	5	10.00	1.00	2.51	3.53	10.71	0.59	1.07	2.51	5.88	12.65	20.00	
01040*	IRON, DISSOLVED (UG/L AS FE)	6	50.00	10.00	19.19	2.20	42.20	8.73	11.27	19.19	32.69	52.76	70.25	
01049	LEAD, DISSOLVED (UG/L AS PB)	1	1.00	1.00										
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	6	50.00	1.00	6.81	4.95	33.67	1.38	2.31	6.81	20.05	52.95	54.62	
01060*	MOLYBDENUM, DISS (UG/L AS MO)	5	10.00	1.00	1.82	2.71	5.74	0.58	0.93	1.82	3.57	6.55	9.41	
01075	SILVER, DISSOLVED (UG/L AS AG)	1	0.10	0.10										
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	6	100.00	100.00	100.00	1.00	100.49	99.51	99.67	100.00	100.33	100.63	100.81	
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	1.00	1.00										

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 95% CONFIDENCE LIMITS ON MEAN
 50% 75% 90% 95%

01130* LITHIUM, DISSOLVED (UG/L AS LI) 6 100.00 1.00 10.00 7.84 78.26 1.28 2.49 10.00 40.15 140.17 296.03
 01150* TITANIUM, DISSOLVED (UG/L AS TI) 3 5.00 1.00 1.71 2.53 9.43 0.31 0.91 1.71 3.20 5.63 7.89
 09503 RADIUM (UG/L) 1 100.00 100.00

END OF CCRE-HOLE G-S M-3 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS
 # -- NC LOG TRANSFORM
 VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2		CORE-HOLE G-S M-3		AQUIFER U METHOD 3		REPORT DATE 03/10/77		PAGE 236	
PARAMETER DESCRIPTION ANALYSES		CF		MINIMUM		MEAN		STANDARD DEVIATION	

H200A5A-2

CORE-HOLE G-S M-3

AWWIFER U METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00930* SODIUM, DISSOLVED
(MG/L AS NA)

8

320.00

200.00

260.18

1.18

256.84

228.05

233.28

260.18

290.18

320.10

339.45

00935* PCTASSIUM, DISSOLVED
(MG/L AS K)

2

4.50

1.20

2.32

2.55

39.92

0.14

1.24

2.32

4.37

7.70

10.81

00940* CHLORIDE, DISSOLVED
(MG/L AS CL)

8

41.00

9.50

18.39

1.60

26.96

12.54

13.40

18.39

25.24

33.56

39.79

00945* SULFATE, DISSOLVED
(MG/L AS SO4)

8

650.00

300.00

460.63

1.25

553.51

383.33

395.65

460.63

536.29

614.88

667.28

00950* FLUORIDE, TOTAL
(MG/L AS F)

8

2.20

0.10

1.19

2.79

2.76

0.52

0.60

1.19

2.39

4.45

6.45

00955* SILICA, DISSOLVED
(MG/L AS SI02)

8

36.00

0.60

7.15

4.56

24.63

2.08

2.57

7.15

19.91

49.98

86.67

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

8

<10.00

<10.00

<10.00

1.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

6

<1000.00

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

8

3299.99

30.00

406.21

3.61

1156.40

142.69

170.83

406.21

965.88

2104.76

3353.53

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

8

<10.00

<10.00

<10.00

1.00

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

8

<50.00

<10.00

<14.54

2.01

01040* COPPER, DISSOLVED
(UG/L AS CU)

8

<100.00

<10.00

<56.23

2.90

01046* IRON, DISSOLVED
(UG/L AS FE)

8

7359.58

<50.00

1856.02

4.90

6779.68

508.11

634.99

1856.02

5424.93

14232.44

25338.60

01049* LEAD, DISSOLVED
(UG/L AS PB)

8

700.00

30.00

135.12

3.07

337.10

54.15

63.38

135.12

288.09

565.13

855.13

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

8

130.00

70.00

96.11

1.20

111.52

82.83

84.97

96.11

108.71

121.44

129.75

01060* MOLYBDENUM, DISS
(UG/L AS MO)

1

<100.00

<100.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

6

50.00

10.00

22.21

1.70

37.81

13.04

15.50

22.21

31.82

45.96

53.34

H200A SA-2

CORE-HOLE G-S M-3
AQUIFER U METHOD 3

REPORT DATE 03/10/77

PAGE 238

NUMBER
OF
ANALYSES

3

PARAMETER DESCRIPTION

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

50%

75%

50%

01075* SILVER, DISSOLVED
(UG/L AS AG)

6

20.00

<10.00

11.22

1.33

14.89

8.46

9.27

11.22

13.59

16.13

17.88

01090 STRONTIUM, DISSOLVED
(UG/L AS SR)

1

11699.58

11699.58

01090* ZINC, DISSOLVED
(UG/L AS ZN)

8

1600.00

<100.00

309.63

2.83

722.56

132.68

153.51

309.63

624.53

1173.72

1711.72

01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

2

<100.00

<100.00

<100.00

1.00

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

2

<100.00

<100.00

<100.00

1.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

8

<10.00

<10.00

<10.00

1.00

01503* GROSS ALPHA,
DISSOLVED (PC/L)

4

12.00

0.30

2.78

5.09

26.59

0.29

0.93

2.78

8.33

22.38

40.40

03501 GROSS BETA,
DISSOLVED (PC/L)

1

15.00

15.00

32730* PHENOLS (UG/L)

2

<1.00

<1.00

<1.00

1.00

70507* PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

6

<0.10

<0.10

<0.10

1.00

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

7

0.80

0.33

0.49

1.31

0.62

0.38

0.41

0.49

0.59

0.69

0.76

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

7

0.70

0.20

0.39

1.74

0.64

0.24

0.27

0.39

0.57

0.80

0.97

71870* BROMIDE (MG/L)

2

0.20

<0.02

0.06

5.09

8.96

0.00

0.02

0.06

0.19

0.51

0.92

71890* MERCURY DISSOLVED
(UG/L AS HG)

8

<10.00

<1.00

<3.76

2.94

END OF CORE-HOLE G-S M-3 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD CF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

C0003# SAMPLE DEPTH, FEET

1 22.32 22.32

C0011# TEMPERATURE, WATER
(DEG. F)

1 47.80 47.80

C0015 CALCIUM, DISSOLVED
(MG/L AS CA)

1 99999.00 99999.00

C0025 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 99999.00 99999.00

C0030 SODIUM, DISSOLVED
(MG/L AS NA)

1 10.00 10.00

C0035 POTASSIUM, DISSOLVED
(MG/L AS K)

1 1.00 1.00

C0055 SILICA, DISSOLVED
(MG/L AS SI02)

1 2.00 2.00

C1006 ALUMINIUM (UG/L)

1 10.00 10.00

C1020 BORON, DISSOLVED
(UG/L AS B)

1 200.00 200.00

C1040 COPPER, DISSOLVED
(UG/L AS CU)

1 10.00 10.00

C1046 IRON, DISSOLVED
(UG/L AS FE)

1 50.00 50.00

C1056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 1.00 1.00

C1080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1 100.00 100.00

C1130 LITHIUM, DISSOLVED
(UG/L AS LI)

1 10.00 10.00

C1150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 1.00 1.00

END OF CORE-HOLE G-S M-3 AQUIFER U METHOD 3A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/16/75 THRU 07/16/75

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.00" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

1

22.32

22.32

00011# TEMPERATURE, WATER
(DEG. F)

1

47.80

47.80

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

1

1491.00

1491.00

00400# PH (STANDARD UNITS)

1

7.20

7.20

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1

379.00

379.00

00440 BICARBONATE ION
(MG/L AS HCO3)

1

395.00

395.00

00445 CARBONATE ION (MG/L
AS CO3)

1

66.00

66.00

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

1

1150.00

1150.00

00621 CARBON, ORGANIC,
DISS (MG/L AS C)

1

19.00

19.00

00720 CYANIDE (MG/L AS CN)

1

<0.01

<0.01

00900 HARDNESS, TOTAL
(MG/L AS CaCO3)

1

370.00

370.00

00915 CALCIUM, DISSOLVED
(MG/L AS Ca)

1

30.00

30.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

1

72.00

72.00

00930 SODIUM, DISSOLVED
(MG/L AS Na)

1

285.00

285.00

00940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

1

27.00

27.00

00945 SULFATE, DISSOLVED
(MG/L AS SO4)

1

470.00

470.00

00950 FLUORIDE, TOTAL
(MG/L AS F)

1

1.70

1.70

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00555	SILICA, DISSOLVED (MG/L AS SI02)	1	2.60	2.60					
01000	ARSENIC, DISSOLVED (UG/L AS AS)	1	<10.00	<10.00					
01005	BARIUM, DISSOLVED (UG/L AS BA)	1	<1000.00	<1000.00					
01020	BORON, DISSOLVED (UG/L AS B)	1	600.00	600.00					
01025	CADMIUM, DISSOLVED (UG/L AS CD)	1	<10.00	<10.00					
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	<10.00	<10.00					
01040	COPPER, DISSOLVED (UG/L AS CU)	1	<100.00	<100.00					
01046	IRON, DISSOLVED (UG/L AS FE)	1	5895.97	5899.97					
01049	LEAD, DISSOLVED (UG/L AS PB)	1	200.00	200.00					
01056	MANGANESE, DISSOLVED (UG/L AS MN)	1	80.00	80.00					
01065	NICKEL, DISSOLVED (UG/L AS NI)	1	30.00	30.00					
01075	SILVER, DISSOLVED (UG/L AS AG)	1	10.00	10.00					
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	1100.00	1100.00					
01145	SELENIUM, DISSOLVED (UG/L AS SE)	1	<10.00	<10.00					
01503	GROSS ALPHA, DISSOLVED (PC/L)	1	0.70	0.70					
03501	GROSS BETA, DISSOLVED (PC/L)	1	6.00	6.00					
70507	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	1	<0.10	<0.10					

CORE-HOLE G-S M-3 ALQUIER U METHOD 3A
NUMBER
CF

PARAMETER DESCRIPTION

ANALYSES

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

1

0.40

0.40

0.40

0.40

95%

90%

75%

50%

25%

UPPER

LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

95%

95%

71846 NITROGEN, AMMONIA
DISS (MG/L AS NH4) 1 0.40 0.40

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3) 1 0.40 0.40

71890 MERCURY DISSOLVED
(UG/L AS Hg) 1 <2.00 <2.00

END OF CORE-HOLE G-S M-3 ALQUIER U METHOD 3A WET SAMPLES REPORTING PERIOD IS 07/16/75 THRU 07/16/75

--- ESTIMATE USING METHOD OF MOMENTS

--- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

42045A-2

CGRE-HOLE G-S M-4
NUMBER OF ANALYSES

AQUIFER C METHOD 1

REPORT DATE 03/10/77

PAGE 243

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

90% 95%

75% 50%

25% 50%

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

2 2207.00 1770.00 1988.50 309.01 2928.71 1048.29 1779.92 1988.50 2197.08 2384.65 2496.81

00011# TEMPERATURE, WATER
(DEG. F)

2 44.96 43.70 44.33 0.89 47.04 41.62 43.73 44.33 44.93 45.47 45.80

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

1 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

1 99999.00 99999.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

1 99999.00 99999.00

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

1 1.00 1.00

00955 SILICA, DISSOLVED
(MG/L AS SI02)

1 20.00 20.00

01006 ALUMINIUM (UG/L)

1 100.00 100.00

01020 BORON, DISSOLVED
(UG/L AS B)

1 4999.99 4999.99

01046 IRON, DISSOLVED
(UG/L AS FE)

1 100.00 100.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1 50.00 50.00

01060 MOLYBDENUM, DISS
(UG/L AS MO)

1 1.00 1.00

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

1 10.00 10.00

END OF CORE-HOLE G-S M-4 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/05/74 THRU 11/06/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

00003# SAMPLE DEPTH, FEET

2 2207.00 1770.00 1988.50 309.01 2928.71 1048.29 1779.92 1988.50 2197.08 2384.65 2496.81

00011# TEMPERATURE, WATER
(DEG. F)

2 44.56 43.70 44.33 0.89 47.04 41.62 43.73 44.33 44.93 45.47 45.80

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

2 4986.99 3078.00 3917.89 1.41 11062.14 1387.60 3112.06 3917.89 4932.39 6067.18 6866.99

00400# PH (STANDARD UNITS)

2 8.00 7.60 7.80 0.28 8.66 6.94 7.61 7.80 7.99 8.16 8.27

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

1 1120.00 1120.00

00440# BICARBONATE ION
(MG/L AS HCO3)

2 1510.00 1320.00 1411.81 1.10 1824.85 1057.48 1324.14 1411.81 1505.28 1594.60 1650.54

00445# CARBONATE ION (MG/L
AS CO3)

2 48.00 42.00 44.90 1.10 59.84 33.69 42.13 44.90 47.85 50.68 52.44

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

2 2049.99 1839.99 1942.16 1.08 2451.80 1538.45 1844.31 1942.16 2045.20 2142.52 2202.91

00746 SULFIDE, DISSOLVED
(MG/L AS S)

1 2.40 2.40

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

2 130.00 82.00 103.25 1.39 278.27 38.31 82.86 103.25 128.65 156.78 170.47

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

2 20.00 19.00 19.49 1.04 21.76 17.46 19.02 19.49 19.98 20.42 20.69

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

2 19.00 7.80 12.17 1.88 82.66 1.79 7.96 12.17 18.62 27.29 34.29

00930# SODIUM, DISSOLVED
(MG/L AS Na)

2 660.00 490.00 568.68 1.23 1079.51 299.58 493.31 568.68 655.57 744.99 804.19

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

1 <1.00 <1.00

00940# CHLORIDE, DISSOLVED
(MG/L AS Cl)

2 22.00 13.00 16.91 1.45 52.45 5.45 13.16 16.91 21.74 27.25 31.18

00945# SULFATE, DISSOLVED
(MG/L AS SO4)

2 220.00 180.00 199.00 1.15 306.48 129.21 180.82 199.00 219.00 238.71 251.33

00950# FLUORIDE, TOTAL
(MG/L AS F)

2 10.30 5.20 7.32 1.62 31.85 1.68 5.28 7.32 10.14 13.60 16.21

CCRE-HOLE G-S M-4 M-4
 NUMBER OF ANALYSES
 PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 WET SAMPLES
 95% CONFIDENCE LIMITS ON MEAN
 UPPER LOWER
 25% 50% 75% 90% 95%

00955*	SILICA, DISSOLVED (MG/L AS SI02)	2	17.00	15.00	15.97	1.09	20.90	12.20	15.04	15.97	16.95	17.89	18.47
01000	ARSENIC, DISSOLVED (UG/L AS AS)	1	<50.00	<50.00									
01025	CADMIUM, DISSOLVED (UG/L AS CD)	1	<10.00	<10.00									
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	<50.00	<50.00									
01040	COPPER, DISSOLVED (UG/L AS CU)	1	<100.00	<100.00									
01046*	IRON, DISSOLVED (UG/L AS FE)	2	170.00	100.00	130.38	1.46	408.32	41.63	101.21	130.38	167.96	210.92	241.65
01049	LEAD, DISSOLVED (UG/L AS PB)	1	<50.00	<50.00									
01056	MANGANESE, DISSOLVED (UG/L AS MN)	1	<50.00	<50.00									
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	<500.00	<500.00									
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	1	100.00	100.00									
01145	SELENIUM, DISSOLVED (UG/L AS SE)	1	<10.00	<10.00									
01503	GROSS ALPHA, DISSOLVED (PC/L)	1	3.50	3.50									
70507	PHOSPHORUS, TOTAL CRTHO (MG/L AS P)	1	0.20	0.20									
71830	HYDROXIDE (MG/L)	1	<0.10	<0.10									
71846	NITROGEN, AMMONIA DISS (MG/L AS NH4)	1	0.57	0.57									
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	2	1.30	<0.10	0.36	6.13	89.87	0.00	0.11	0.36	1.23	3.69	7.12
71890	MERCURY DISSOLVED (UG/L AS HG)	1	<10.00	<10.00									

END OF CORE-HOLE G-S M-4 M-4
 AQUIFER C METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/05/74 THRU 11/06/74

200ASA-2

CORE-HOLE G-S M-4
NUMBER OF ANALYSES

AQUIFER C METHOD 1
MINIMUM
MAXIMUM
MEAN
STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

REPORT DATE 03/10/77
PAGE 46
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H2004SA-2

CORE-HOLE G-S M-4
NUMBER
CF

3

REPORT DATE 03/10/77

PAGE 247

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

95%

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MINIMUM

MAXIMUM

ANALYSES

OF

NUMBER

3

AQUIFER L METHOD

G-S M-4

CORE-HOLE

H200A5A-2

CS503 RADIUM (LG/L)

1 100.00 100.00

END OF CORE-HOLE G-S M-4 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 07/17/75 THRU 11/13/76

--- ESTIMATE USING METHOD OF MOMENTS

* -- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2		CORE-HOLE G-S M-4		AQUIFER L METHOD 3		REPORT DATE 03/10/77		PAGE 249					
PARAMETER DESCRIPTION ANALYSES		MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
						UPPER	LOWER	25%	50%	75%	90%	95%	
00003#	SAMPLE DEPTH, FEET	4	569.50	560.84	565.04	4.45	571.22	558.86	562.03	565.04	568.04	570.75	572.36
00011#	TEMPERATURE, WATER (DEG. F)	4	61.70	58.50	60.35	1.38	62.25	58.44	59.42	60.35	61.28	62.12	62.61
00095*	CCNOUCTIVITY (UMHOS AT 25 DEG C)	4	3680.00	1920.00	2949.40	1.35	4482.99	1940.43	2406.05	2949.40	3615.44	4341.91	4844.36
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	43.00	30.00	35.92	1.29	77.92	16.56	30.25	35.92	42.65	49.76	54.59
00400#	PH (STANDARD UNITS)	3	7.60	7.20	7.40	0.20	7.77	7.03	7.27	7.40	7.53	7.66	7.73
00410*	ALKALINITY, TOTAL (MG/L AS CaCO3)	4	2539.95	405.00	1390.63	2.33	4485.61	431.12	786.81	1390.63	2457.84	4101.85	5571.79
00440*	BICARBONATE ICN (MG/L AS HCO3)	4	2579.95	460.00	1610.43	2.36	5294.54	489.84	902.76	1610.43	2872.83	4934.53	6599.85
00445*	CARBONATE ICN (MG/L AS CO3)	4	130.00	36.00	88.32	1.84	206.21	37.82	58.47	88.32	133.39	193.28	241.27
00540*	DISSOLVED SOLIDS (ROE AT 178 DEG C, M	4	3359.99	1480.00	2271.48	1.41	3644.68	1415.65	1804.86	2271.48	2858.73	3515.42	3978.17
00608	NITROGEN, AMMONIA, DISSOLVED(MG/L AS N)	1	2.50	2.50									
00613*	NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	2	0.30	<0.10	0.17	2.17	1.34	0.02	0.10	0.17	0.29	0.47	0.62
00681*	CARBON, ORGANIC, DISS (MG/L AS C)	4	11.00	3.50	8.07	1.75	17.51	3.72	5.53	8.07	11.76	16.51	20.22
00720*	CYANIDE (MG/L AS CN)	4	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	1.60	<0.10	0.40	7.10	155.86	0.00	0.11	0.40	1.50	4.94	10.06
00900*	HARDNESS, TOTAL (MG/L AS CaCO3)	3	210.00	110.00	169.28	1.45	336.10	85.26	131.57	169.28	217.80	273.19	312.84
00915*	CALCIUM, DISSOLVED (MG/L AS Ca)	4	42.00	6.60	14.37	2.18	42.47	4.86	8.49	14.37	24.34	39.10	51.91
00925*	MAGNESIUM, DISSOLVED (MG/L AS MG)	4	140.00	22.00	49.41	2.15	143.33	17.03	29.43	49.41	82.95	132.18	174.65

H20QASA-2		CCRE-HOLE G-S M-4		AQUIFER L METHOD 3		REPORT DATE 03/10/77		PAGE 250	
PARAMETER DESCRIPTION ANALYSES		NUMBER OF		MAXIMUM		MINIMUM		MEAN	

H20QASA-2

CORE-POLE G-S M-4
NUMBER
OF

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
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01065* NICKEL, DISSOLVED
(UG/L AS NI)

3	60.00	10.00	22.89	2.47	120.39	4.35	12.44	22.89	42.13	72.91	101.20
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01075* SILVER, DISSOLVED
(UG/L AS AG)

2	<10.00	<10.00	<10.00	1.00							
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01080* STPONTIUM, DISSOLVED
(UG/L AS SR)

2	4999.99	1700.00	2915.47	2.14	29696.01	286.23	1742.18	2915.47	4878.92	7751.98	10225.14
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01085 VANADIUM, DISSOLVED
(UG/L AS V)

1	<50.00	<50.00									
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01090* ZINC, DISSOLVED
(UG/L AS ZN)

4	5499.99	<100.00	407.22	6.65	5643.43	29.38	113.40	407.22	1462.38	4616.92	9182.09
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01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

2	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
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01130* LITHIUM, DISSOLVED
(UG/L AS LI)

2	200.00	<100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72
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01145* SELENIUM, DISSOLVED
(UG/L AS SE)

4	<10.00	<10.00	<10.00	1.00							
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01503* GROSS ALPHA,
DISSOLVED (PC/L)

2	6.90	6.50	6.65	1.03	7.33	6.03	6.51	6.65	6.79	6.93	7.01
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03501* GROSS BETA,
DISSOLVED (PC/L)

2	52.00	47.00	49.44	1.07	61.45	39.77	47.11	49.44	51.88	54.18	55.61
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32730* PHENOLS (UG/L)

2	<1.00	<1.00	<1.00	1.00							
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70507* PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

4	<0.10	<0.10	<0.10	1.00							
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71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

3	1.10	0.50	0.76	1.49	1.58	0.37	0.58	0.76	0.99	1.26	1.46
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71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3	0.50	<0.10	0.23	2.47	1.20	0.04	0.12	0.23	0.42	0.73	1.01
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71870 BROMIDE (MG/L)

1	<0.10	<0.10									
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71890* MERCURY DISSOLVED
(UG/L AS HG)

4	<10.00	<1.00	<2.51	2.66							
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END OF CORE-POLE G-S M-4 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 07/17/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NC LCG TRANSFORM

H200ASA-2

CORE-HOLE G-S M-4
NUMBER
CF

AQUIFER L METHOD 3A

REPORT DATE 03/10/77

PAGE

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SPECTROGRAPHIC SAMPLES

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

LOWER

UPPER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

C0003* SAMPLE DEPTH, FEET

5 564.00 546.55 557.46 6.77 565.25 549.67 552.89 557.46 562.03 566.14 568.60

C0011* TEMPERATURE, WATER
(DEG. F)

5 57.60 54.50 56.62 1.22 58.03 55.21 55.79 56.62 57.44 58.19 58.63

C0015* CALCIUM, DISSOLVED
(MG/L AS CA)

5 99999.00 99999.00

C0025* MAGNESIUM, DISSOLVED
(MG/L AS MG)

5 99999.00 99999.00

C0030* SODIUM, DISSOLVED
(MG/L AS NA)

5 99999.00 5.00 7.07 1.49 12.32 4.06 5.40 7.07 9.26 11.81 13.66

C0035* POTASSIUM, DISSOLVED
(MG/L AS K)

5 1.00 0.10 0.40 3.53 1.70 0.09 0.17 0.40 0.93 2.01 3.17

C0055* SILICA, DISSOLVED
(MG/L AS SIO2)

5 10.00 5.00 5.74 1.36 8.20 4.02 4.66 5.74 7.08 8.55 9.56

C1006* ALUMINIUM (UG/L)

5 100.00 10.00 54.93 2.71 173.12 17.43 28.00 54.93 107.77 197.55 263.85

C1020* IRON, DISSOLVED
(UG/L AS B)

5 500.00 200.00 346.57 1.65 617.13 194.63 246.99 346.57 486.30 659.47 701.23

C1040* COPPER, DISSOLVED
(UG/L AS CU)

5 10.00 1.00 4.76 2.56 14.11 1.62 2.53 4.78 9.02 15.98 22.48

C1046* IRON, DISSOLVED
(UG/L AS FE)

5 50.00 20.00 24.02 1.51 38.48 15.00 18.22 24.02 31.68 40.62 47.14

C1056* MANGANESE, DISSOLVED
(UG/L AS MN)

5 10.00 1.00 2.19 3.00 7.74 0.62 1.04 2.19 4.59 8.95 13.33

C1060* MOLYBDENUM, DISS
(UG/L AS MO)

4 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

C1080* STRONTIUM, DISSOLVED
(UG/L AS SR)

5 100.00 100.00 100.00 1.00 100.40 99.60 99.76 100.00 100.23 100.45 100.57

C1130* LITHIUM, DISSOLVED
(UG/L AS LI)

4 10.00 1.00 5.62 3.16 27.80 1.14 2.59 5.62 12.23 24.60 37.37

C1150* TITANIUM, DISSOLVED
(UG/L AS TI)

1 1.00 1.00

C0503* RADIUM (UG/L)

2 300.00 200.00 244.95 1.33 586.03 102.38 201.85 244.95 297.25 353.75 392.55

END OF CORE-HOLE G-S M-4 AQUIFER L METHOD 3A SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 07/17/75

H20CASA-2

CORE-HOLE G-S M-4
NUMBER OF ANALYSES

AQUIFER L METHOD 3A

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

STANDARD DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

NUMBER

PARAMETER DESCRIPTION

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSECPM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CCRE-HOLE G-S M-4
NUMBER
CF

AQUIFER L METHOD 3A

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

C0955* SILICA, DISSOLVED
(MG/L AS SI02)

5

32.00

16.00

23.09

1.32

16.77

19.14

23.09

27.86

32.99

36.50

C1000* ARSENIC, DISSOLVED
(UG/L AS AS)

5

<10.00

<10.00

<10.00

1.00

C1005* BARIUM, DISSOLVED
(UG/L AS BA)

5

<1000.00

<1000.00

<1000.00

1.00

C1020* BOPON, DISSOLVED
(UG/L AS B)

5

400.00

<10.00

105.06

5.04

16.38

35.28

105.06

312.85

834.63

1500.88

C1025* CADMIUM, DISSOLVED
(UG/L AS CD)

5

<10.00

<10.00

<10.00

1.00

C1030* CHROMIUM, DISSOLVED
(UG/L AS CR)

5

<50.00

<10.00

<19.04

2.41

C1040* COPPER, DISSOLVED
(UG/L AS CU)

5

<100.00

<10.00

<39.81

3.53

C1046* TRCN, DISSOLVED
(UG/L AS FE)

5

5999.99

<50.00

1994.69

7.88

185.84

495.18

1994.69

8035.08

28126.28

59506.01

C1049* LEAD, DISSOLVED
(UG/L AS PB)

5

1200.00

30.00

376.45

4.34

2033.06

139.86

376.45

1013.20

2468.17

4203.55

C1056* MANGANESE, DISSOLVED
(UG/L AS MN)

5

110.00

50.00

83.09

1.36

118.36

67.50

83.09

102.27

123.27

137.84

C1065* NICKEL, DISSOLVED
(UG/L AS NI)

5

30.00

20.00

27.66

1.20

34.08

24.48

27.66

31.26

34.90

37.28

C1075* SILVER, DISSOLVED
(UG/L AS AG)

5

<10.00

<10.00

<10.00

1.00

C1090* ZINC, DISSOLVED
(UG/L AS ZN)

5

9999.98

40.00

669.39

7.42

66.80

173.01

669.39

2589.87

8743.45

18100.10

C1106 ALUMINUM, DISSOLVED
(UG/L AS AL)

1

<100.00

<100.00

C1145* SELENIUM, DISSOLVED
(UG/L AS SE)

5

<10.00

<10.00

<10.00

1.00

C1503* GROSS ALPHA,
DISSOLVED (PC/L)

4

9.30

1.30

2.24

2.58

0.60

1.18

2.24

4.26

7.58

10.70

C3501 GROSS BETA,
DISSOLVED (PC/L)

1

11.00

11.00

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
						UPPER	LOWER	25%	50%	75%	95%
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	5	<0.10	<0.10	<0.10	1.00						
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	5	0.30	<0.01	0.10	4.01	0.48	0.02	0.04	0.10	0.25	0.58
71851* NITROGEN, NITRATE DISS (MG/L AS NO3)	5	1.50	0.10	0.32	3.38	1.32	0.08	0.14	0.32	0.74	1.55
71890* MERCURY DISSOLVED (UG/L AS HG)	5	<10.00	<2.00	<7.25	2.05						2.41

END OF CORE-HOLE G-S M-4 AQUIFER L METHOD 3A WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 07/17/75

* -- ESTIMATE USING METHOD OF MOMENTS
-- NC LCG TRANSFORM
VALUES OF "<9999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE G-S M-4
OF
NUMBER

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003* SAMPLE DEPTH, FEET

2

1200.00

970.00

1085.00

162.63

1579.84

590.16

975.22

1085.00

1194.78

1293.50

1352.53

00011* TEMPERATURE, WATER
(DEG. F)

2

42.62

42.44

42.53

0.13

42.91

42.15

42.45

42.53

42.61

42.69

42.74

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

2

99999.00

99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

2

99999.00

99999.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

2

99999.00

99999.00

00935* POTASSIUM, DISSOLVED
(MG/L AS K)

2

1.00

0.50

0.71

1.63

3.14

0.16

0.51

0.71

0.98

1.33

1.58

00955* SILICA, DISSOLVED
(MG/L AS SI02)

2

20.00

20.00

20.00

1.00

20.10

19.90

19.98

20.00

20.02

20.04

20.05

01006* ALUMINIUM (UG/L)

2

100.00

100.00

100.00

1.00

100.00

100.00

100.00

100.00

100.00

100.00

100.00

01020* BORON, DISSOLVED
(UG/L AS B)

2

500.00

100.00

223.61

3.12

7133.66

7.01

103.72

223.61

482.06

961.84

1453.84

01046* IRON, DISSOLVED
(UG/L AS FE)

2

100.00

100.00

100.00

1.00

100.00

100.00

100.00

100.00

100.00

100.00

100.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1

50.00

50.00

END OF CORE-HOLE G-S M-4 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/03/74 THRU 11/03/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.00" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
CC003# SAMPLE DEPTH, FEET	2 1200.00	970.00	1085.00	162.63	1579.84 590.16	975.22 1085.00 1194.78 1293.50 1352.53
00011# TEMPERATURE, WATER (DEG. F)	2 42.62	42.44	42.53	0.13	42.91 42.15	42.45 42.53 42.61 42.69 42.74
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	2 1120.00	1050.00	1084.43	1.05	1245.15 944.46	1051.69 1084.43 1118.19 1149.45 1168.56
C0400# PH (STANDARD UNITS)	2 8.50	7.00	7.75	1.06	10.90 4.52	7.03 7.75 8.47 9.11 9.49
CC440# BICARBONATE ION (MG/L AS HCO3)	2 420.00	320.00	366.61	1.21	658.08 204.23	321.98 366.61 417.41 469.09 503.00
00445# CARBONATE ION (MG/L AS CO3)	2 18.00	<0.10	1.34	39.33	95466.63 0.00	0.11 1.34 16.00 148.61 563.57
00540# DISSOLVED SOLIDS (FOE AT 178 DEG C, M)	2 1120.00	790.00	940.64	1.28	1993.28 443.89	796.28 940.64 1111.15 1290.74 1411.72
00746# SULFIDE, DISSOLVED (MG/L AS S)	2 4.10	3.70	3.85	1.08	4.86 3.12	3.71 3.89 4.09 4.27 4.39
C0900# HARDNESS, TOTAL (MG/L AS CaCO3)	2 260.00	180.00	216.33	1.30	477.17 98.08	181.51 216.33 257.83 301.91 331.79
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	2 44.00	28.00	35.10	1.38	92.82 13.27	28.29 35.10 43.55 52.37 59.38
00925# MAGNESIUM, DISSOLVED (MG/L AS MG)	2 36.00	27.00	31.18	1.23	57.83 16.79	27.18 31.18 35.77 40.47 43.57
C0930# SODIUM, DISSOLVED (MG/L AS NA)	2 260.00	240.00	249.80	1.06	296.68 210.33	240.45 249.80 259.51 269.57 274.14
C0935# POTASSIUM, DISSOLVED (MG/L AS K)	2 <1.00	<1.00	<1.00	1.00		
C0940# CHLORIDE, DISSOLVED (MG/L AS CL)	2 4.20	2.80	3.43	1.33	8.20 1.43	2.83 3.43 4.16 4.95 5.50
00945# SULFATE, DISSOLVED (MG/L AS SO4)	2 420.00	350.00	383.40	1.14	567.59 258.99	351.45 383.40 418.27 452.32 473.99
C0950# FLUORIDE, TOTAL (MG/L AS F)	2 8.90	6.60	7.62	1.23	14.15 4.10	6.64 7.62 8.74 9.89 10.65
00955# SILICA, DISSOLVED (MG/L AS SiO2)	2 21.00	17.00	18.89	1.16	29.77 11.99	17.08 18.89 20.90 22.38 24.16

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION ANALYSES

C1000* ARSENIC, DISSOLVED
(UG/L AS AS)

2

<50.00

<50.00

1.00

C1025* CADMIUM, DISSOLVED
(UG/L AS CD)

2

<10.00

<10.00

1.00

C1030* CHROMIUM, DISSOLVED
(UG/L AS CR)

2

<50.00

<50.00

1.00

C1040* COPPER, DISSOLVED
(UG/L AS CU)

2

<100.00

<100.00

1.00

C1046* IPCN, DISSOLVED
(UG/L AS FE)

2

170.00

<50.00

92.20

2.38

1282.88

6.63

51.41

92.20

165.34

279.58

382.75

C1049* LEAD, DISSOLVED
(UG/L AS PB)

2

50.00

50.00

1.00

C1090* ZINC, DISSOLVED
(UG/L AS ZN)

2

<500.00

<500.00

1.00

C1106* ALUMINUM, DISSOLVED
(UG/L AS AL)

2

100.00

100.00

1.00

C1145* SELENIUM, DISSOLVED
(UG/L AS SE)

2

<10.00

<10.00

1.00

C1503* GROSS ALPHA,
DISSOLVED (PC/L)

2

5.40

3.50

4.35

1.36

11.05

1.71

3.53

4.35

5.35

6.44

7.20

70507* PHOSPHORUS, TOTAL
CRTHO (MG/L AS P)

2

0.30

0.10

0.17

2.17

1.84

0.02

0.10

0.17

0.29

0.47

0.62

71830* HYDROXIDE (MG/L)

2

<0.10

<0.10

1.00

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

2

1.80

0.83

1.22

1.73

6.46

0.23

0.84

1.22

1.77

2.47

3.01

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

2

0.50

0.40

0.45

1.17

0.72

0.28

0.40

0.45

0.50

0.55

0.58

71890* MERCURY DISSOLVED
(UG/L AS HG)

2

<10.00

<10.00

1.00

END OF CORE-HOLE G-S M-4 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 11/03/74 THRU 11/03/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2

CCRE-POLE G-S M-4
NUMBER

3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

CCCC3# SAMPLE DEPTH, FEET

8 455.00 403.84 481.41 31.36 506.98 455.84 460.24 481.41 502.58 521.62 533.01

00011# TEMPERATURE, WATER
(DEG. F)

8 59.00 54.50 56.64 1.43 57.80 55.47 55.67 56.64 57.60 58.47 58.99

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

7 99999.00 10.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

7 99999.00 10.00

00930# SODIUM, DISSOLVED
(MG/L AS NA)

7 99999.00 5.00 7.58 1.46 11.73 4.90 5.87 7.58 9.79 12.33 14.15

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

7 2.00 0.10 0.41 3.84 1.37 0.12 0.17 0.41 1.02 2.31 3.77

00955# SILICA, DISSOLVED
(MG/L AS SI02)

7 10.00 2.00 4.84 1.60 7.36 3.19 3.53 4.84 6.64 8.32 10.45

01006# ALUMINIUM (UG/L)

7 500.00 10.00 65.18 4.33 241.41 17.60 24.25 65.18 175.20 426.24 725.39

01020# BORON, DISSOLVED
(UG/L AS B)

7 500.00 100.00 348.55 1.91 621.97 195.33 225.08 348.55 539.74 799.79 1011.83

01040# COPPER, DISSOLVED
(UG/L AS CU)

6 20.00 1.00 3.55 4.10 14.53 0.87 1.37 3.55 9.20 21.65 36.14

01046# IRON, DISSOLVED
(UG/L AS FE)

7 2000.00 20.00 50.17 5.37 225.55 11.16 16.12 50.17 156.09 433.19 797.58

01049# LEAD, DISSOLVED
(UG/L AS PB)

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

7 50.00 1.00 6.52 4.09 22.97 1.85 2.52 6.52 16.87 39.69 66.19

01060# MOLYBDENUM, DISS
(UG/L AS MO)

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

01080# STRONTIUM, DISSOLVED
(UG/L AS SR)

6 100.00 100.00 100.00 1.00 100.49 99.51 99.67 100.00 100.33 100.63 100.81

01100 TIN, DISSOLVED (UG/L
AS SN)

1 1.00 1.00

01130# LITHIUM, DISSOLVED
(UG/L AS LI)

5 10.00 1.00 2.51 3.53 10.71 0.59 1.07 2.51 5.88 12.65 20.00

SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED
 UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
 DEVIATION

MINIMUM

MAXIMUM

OF

PARAMETER DESCRIPTION

01150* TITANIUM, DISSOLVED
 (UG/L AS TI) 6 1.00 1.00 1.00 1.00 1.00 1.00 1.00

09503 RADIUM (UG/L) 1 100.00 100.00

END OF CCRE-HOLE G-S M-4 AQUIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "95999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
					95% CONFIDENCE LIMITS ON MEAN UPPER	95% CONFIDENCE LIMITS ON MEAN LOWER	25% UPPER	25% LOWER	50% UPPER	50% LOWER	75% UPPER	75% LOWER
00003# SAMPLE DEPTH, FEET	6	455.00	403.84	481.41	31.37	506.99	455.84	460.24	481.41	502.59	521.63	533.01
00011# TEMPERATURE, WATER (DEG. F)	8	59.00	54.50	56.64	1.43	57.80	55.47	55.67	56.64	57.60	58.47	58.99
00095# CONDUCTIVITY (UMHOS AT 25 DEG C)	8	3119.99	1750.00	2139.32	1.19	2460.30	1860.21	1905.50	2139.32	2401.82	2665.28	2836.45
00340# CHEMICAL OXYGEN DEMAND, .25 N K2CR07	2	32.00	31.00	31.50	1.02	33.71	29.42	31.02	31.50	31.98	32.41	32.68
00400# PH (STANDARD UNITS)	7	7.10	6.20	6.70	0.32	6.99	6.41	6.48	6.70	6.92	7.11	7.23
00410# ALKALINITY, TOTAL (MG/L AS CaCO3)	8	740.00	500.00	636.50	1.15	713.29	568.08	579.32	636.56	699.45	761.30	800.87
00440# BICARBONATE ION (MG/L AS HCO3)	8	900.00	585.00	770.32	1.16	869.13	682.74	697.07	770.32	851.27	931.30	982.71
00445# CARBONATE ION (MG/L AS CO3)	8	24.00	<0.10	0.38	11.84	2.85	0.05	0.07	0.38	2.01	9.03	22.14
00540# DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	8	1819.99	1410.00	1632.28	1.08	1735.56	1535.14	1551.44	1632.26	1717.33	1797.60	1847.38
00608# NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	1	0.50	0.50									
00613# NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	2	0.50	<0.10	0.22	3.12	7.13	0.01	0.10	0.22	0.48	0.96	1.45
00681# CARBON, ORGANIC, DISS (MG/L AS C)	7	18.00	6.00	10.73	1.42	14.66	7.86	8.48	10.73	13.58	16.79	19.05
00720# CYANIDE (MG/L AS CN)	8	<0.01	<0.01	<0.01	1.00							
00746# SULFIDE, DISSOLVED (MG/L AS S)	2	1.00	0.40	0.63	1.91	4.54	0.09	0.41	0.63	0.98	1.45	1.84
00900# HARDNESS, TOTAL (MG/L AS CaCO3)	7	910.00	680.00	821.92	1.12	910.50	741.90	760.74	821.92	888.01	951.97	992.40
00915# CALCIUM, DISSOLVED (MG/L AS Ca)	8	220.00	54.00	137.10	1.66	207.33	90.66	97.34	137.10	193.08	262.72	315.84
00925# MAGNESIUM, DISSOLVED (MG/L AS Mg)	8	135.00	82.00	108.36	1.24	129.49	90.68	93.51	108.36	125.58	143.39	155.23

H20QASA-2			CCPE-HOLE G-S M-4			AQUIFER U METHOD 3			REPORT DATE 03/10/77			PAGE 264														
PARAMETER DESCRIPTION ANALYSES			MAXIMUM			MINIMUM			STANDARD DEVIATION			WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN LOWER			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED											
												25%			50%			75%			90%			95%		

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 95% CONFIDENCE LIMITS ON MEAN
 25% 50% 75% 90% 95%
 THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

01065*	NICKEL, DISSOLVED (UG/L AS NI)	7	40.00	10.00	29.01	1.63	45.00	18.70	20.82	29.01	40.41	54.44	65.07
01075*	SILVER, DISSOLVED (UG/L AS AG)	6	20.00	<10.00	11.22	1.33	14.89	8.46	9.27	11.22	13.59	16.13	17.88
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	6999.58	4399.98	5549.75	1.39	15067.89	2044.06	4446.74	5549.75	6926.34	8453.59	9523.39
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	<50.00	<50.00									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	8	4399.58	<100.00	391.72	3.77	1156.86	132.64	159.81	391.72	960.18	2150.30	3482.54
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	3	200.00	<100.00	125.59	1.49	262.80	60.40	96.17	125.99	165.06	210.45	243.35
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	200.00	<100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	8	<10.00	<10.00	<10.00	1.00							
01503*	GRASS ALPHA, DISSOLVED (PC/L)	4	11.00	2.20	4.63	2.00	12.10	1.77	2.91	4.63	7.39	11.24	14.45
03501	GROSS BETA, DISSOLVED (PC/L)	1	49.00	49.00									
22730*	PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507*	PHOSPHORUS, TOTAL ORTH (MG/L AS P)	8	<0.10	<0.10	<0.10	1.00							
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	0.80	<0.10	0.24	2.53	0.55	0.10	0.13	0.24	0.45	0.79	1.10
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	7	0.80	0.10	0.22	2.33	0.47	0.10	0.12	0.22	0.39	0.65	0.88
71870*	BROMIDE (MG/L)	2	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
71890*	MERCURY DISSOLVED (UG/L AS HG)	8	<10.00	<1.00	<3.76	2.94							

END OF CORE-HOLE G-S M-4 AQUIFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 11/13/76

--- ESTIMATE USING METHOD OF MOMENTS
 --- AC LCG TRANSFORM

CORE-HOLE G-S M-4

NUMBER

CF

3

PARAMETER DESCRIPTION

ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD

DEVIATION

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

VALUES OF "99999.0" ARE "MAJCF" CONCENTRATIONS

H20QASA-2

CCRE-HOLE G-S M-5
OF
NUMBER

AQUIFER M METHOD 1

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

1 285.00 285.00

00011# TEMPERATURE, WATER
(DEG. F)

1 58.70 58.70

END OF CCRE-HOLE G-S M-5 AQUIFER M METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06/27/75 THRU 06/27/75

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "95999.0" ARE "MAJOR" CONCENTRATIONS

H200A SA-2

C CRE-HOLE G-S M-S
NUMBER
OF

AQUIFER M METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

00003# SAMPLE DEPTH, FEET 1 285.00 285.00

00011# TEMPERATURE, WATER (DEG. F) 1 58.70 58.70

00055 CCNDUCTIVITY (UMHOS AT 25 DEG C) 1 3415.99 3419.99

00400# PH (STANDARD UNITS) 1 7.00 7.00

00410 ALKALINITY, TOTAL (MG/L AS CaCO_3) 1 390.00 390.0000440 BICARBONATE ION (MG/L AS HCO_3) 1 460.00 460.0000445 CARBONATE ION (MG/L AS CO_3) 1 18.00 18.00

00540 DISSOLVED SOLIDS (ROE AT 178 DEG C, M) 1 2150.00 2150.00

00681 CARBON, ORGANIC, DISS (MG/L AS C) 1 1350.00 1350.00

00720 CYANIDE (MG/L AS CN) 1 <0.01 <0.01

00900 HARDNESS, TOTAL (MG/L AS CaCO_3) 1 170.00 170.00

00915 CALCIUM, DISSOLVED (MG/L AS CA) 1 29.00 29.00

00925 MAGNESIUM, DISSOLVED (MG/L AS MG) 1 23.00 23.00

00930 SODIUM, DISSOLVED (MG/L AS NA) 1 690.00 690.00

00940 CHLORIDE, DISSOLVED (MG/L AS CL) 1 38.00 38.00

00945 SULFATE, DISSOLVED (MG/L AS SO_4) 1 1100.00 1100.00

00950 FLUORIDE, TOTAL (MG/L AS F) 1 0.40 0.40

H20QASA-2

CORE-HOLE G-S M-5
NUMBER OF ANALYSES

AQUIFER M METHOD 1

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00955 SILICA, DISSOLVED
(MG/L AS SIO2)

1

22.00

22.00

01000 ARSENIC, DISSOLVED
(UG/L AS AS)

1

<10.00

<10.00

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1

<1000.00

<1000.00

01020 BORON, DISSOLVED
(UG/L AS B)

1

700.00

700.00

01025 CADMIUM, DISSOLVED
(UG/L AS CD)

1

<10.00

<10.00

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1

<10.00

<10.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

1

<100.00

<100.00

01046 IRON, DISSOLVED
(UG/L AS FE)

1

7099.98

7099.98

01049 LEAD, DISSOLVED
(UG/L AS PB)

1

80.00

80.00

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

1

80.00

80.00

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

200.00

200.00

01075 SILVER, DISSOLVED
(UG/L AS AG)

1

<10.00

<10.00

01090 ZINC, DISSOLVED
(UG/L AS ZN)

1

<100.00

<100.00

01145 SELENIUM, DISSOLVED
(UG/L AS SE)

1

<10.00

<10.00

01503 GROSS ALPHA,
DISSOLVED (PC/L)

1

14.00

14.00

70507 PHOSPHORUS, TOTAL
ORTH (MG/L AS P)

1

<0.10

<0.10

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3)

1

0.20

0.20

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270

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

CCRE-HOLE G-S M-5 M METHOD 1

NUMBER
OF

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

MEAN

71890 MERCURY DISSOLVED 1 <2.00 <2.00

(UG/L AS HG)

END OF CCRE-HOLE G-S M-5 M METHOD 1 WET SAMPLES REPORTING PERIOD IS 06/27/75 THRU 06/27/75

* -- ESTIMATE USING METHOD CF MCMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2

CCRE-HOLE G-S M-5
OF
ANALYSES

AQUIFER M METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

50%

75%

50%

25%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

NUMBER

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

6 236.39 235.24 235.77 0.48 236.25 235.29 235.44 235.77 236.09 236.39 236.56

00011# TEMPERATURE, WATER
(DEG. F)

6 56.30 49.80 52.20 2.68 54.86 49.52 50.39 52.20 54.01 55.64 56.61

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

6 999999.00 10.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

6 999999.00 5.00

00930# SODIUM, DISSOLVED
(MG/L AS NA)

6 999999.00 2.00 5.49 1.94 11.77 2.56 3.51 5.49 8.59 12.84 16.34

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

6 1.00 0.01 0.10 7.84 0.73 0.01 0.02 0.10 0.40 1.40 2.96

00955# SILICA, DISSOLVED
(MG/L AS SIO2)

6 10.00 2.00 4.14 1.87 7.71 2.22 2.71 4.14 6.30 9.20 11.53

01005# BARIUM, DISSOLVED
(UG/L AS BA)

2 10.00 1.00 3.16 5.09 448.23 0.02 1.05 3.16 9.49 25.50 46.05

01006# ALUMINIUM (UG/L)

6 2000.00 5.00 79.37 9.78 774.49 8.13 17.03 79.37 369.96 1476.73 3379.11

01020# BORON, DISSOLVED
(UG/L AS B)

6 500.00 10.00 164.75 4.24 697.24 38.93 62.16 164.75 436.70 1045.28 1772.39

01030 CHROMIUM, DISSOLVED
(UG/L AS CR)

1 1.00 1.00

01040# COPPER, DISSOLVED
(UG/L AS CU)

6 50.00 1.00 11.65 4.50 52.32 2.59 4.22 11.65 32.14 80.07 138.19

01046# IRON, DISSOLVED
(UG/L AS FE)

6 2000.00 10.00 116.50 6.56 762.64 17.80 32.73 116.50 414.65 1238.66 2570.42

01049# LEAD, DISSOLVED
(UG/L AS PB)

3 100.00 1.00 12.60 10.35 922.59 0.17 2.60 12.60 61.02 232.09 588.84

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

6 500.00 1.00 15.23 8.39 127.49 1.82 3.63 15.23 64.01 232.74 503.65

01060 MOLYBDENUM, DISS
(UG/L AS MO)

1 10.00 10.00

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1 1.00 1.00

H200ASA-2		CCFE-HOLE G-S M-5		AQUIFER M METHOD 3		REPORT DATE 03/10/77		PAGE 273					
PARAMETER DESCRIPTION ANALYSES		NUMBER OF		MAXIMUM		MINIMUM		MEAN					
STANDARD DEVIATION		WET SAMPLES		95% CONFIDENCE		LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS					
UPPER		LOWER		25%		50%		75%					
90%		95%											
00003#	SAMPLE DEPTH, FEET	6	236.39	235.24	235.77	0.45	236.21	235.32	235.47	235.77	236.07	236.34	236.50
00011#	TEMPERATURE, WATER (DEG. F)	6	56.30	49.80	52.20	2.68	54.88	49.52	50.39	52.20	54.01	55.63	56.61
00055#	CONDUCTIVITY (UMHOS AT 25 DEG C)	6	3999.95	3199.99	3440.99	1.08	3720.85	3182.17	3263.90	3440.99	3627.68	3804.20	3913.84
00340	CHEMICAL OXYGEN DEMAND, .25 N K2CR2O7	1	26.00	26.00									
00400#	PH (STANDARD UNITS)	6	7.00	6.60	6.78	0.16	6.94	6.62	6.68	6.78	6.89	6.99	7.05
00410#	ALKALINITY, TOTAL (MG/L AS CaCO3)	6	380.00	340.00	361.38	1.04	377.37	346.06	350.96	361.38	372.11	382.03	388.09
00440#	BICARBONATE ION (MG/L AS HCO3)	6	465.00	400.00	436.88	1.06	462.98	412.25	420.09	436.38	454.35	470.66	480.68
00445#	CARBONATE ION (MG/L AS CO3)	6	36.00	<0.10	0.57	15.47	8.87	0.04	0.09	0.57	3.65	19.25	52.01
00540#	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	6	2959.99	2560.00	2712.64	1.06	2880.78	2554.30	2604.61	2712.64	2825.14	2950.28	2995.03
00613	NITROGEN, NITRITE, DISSOLVED(MG/L AS N)	1	<0.02	<0.02									
00681#	CARBON, ORGANIC, DISS (MG/L AS C)	5	8.00	3.00	5.20	1.43	7.85	3.45	4.09	5.20	6.62	8.23	9.37
00720#	CYANIDE (MG/L AS CN)	6	0.02	<0.01	0.01	1.33	0.01	0.01	0.01	0.01	0.01	0.02	0.02
00746	SULFIDE, DISSOLVED (MG/L AS S)	1	1.90	1.90									
00900#	HARDNESS, TOTAL (MG/L AS CaCO3)	5	335.00	280.00	311.17	1.09	341.91	283.19	294.43	311.17	328.87	345.64	356.07
00915#	CALCIUM, DISSOLVED (MG/L AS Ca)	6	42.00	24.00	32.14	1.25	40.31	25.62	27.57	32.14	37.46	42.98	46.67
00925#	MAGNESIUM, DISSOLVED (MG/L AS Mg)	6	67.00	42.00	53.77	1.22	65.68	44.03	46.98	53.77	61.55	69.50	74.74
00930#	SODIUM, DISSOLVED (MG/L AS Na)	6	870.00	700.00	789.68	1.08	853.67	730.48	749.18	789.68	832.37	872.72	897.78

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION
-----------------------	----------	---------	---------	------	--------------------

00003#	SAMPLE DEPTH, FEET	1	235.84	235.84	
00011#	TEMPERATURE, WATER (DEG. F)	1	57.20	57.20	

END OF CCRE-HOLE G-S M-5 AQUIFER X METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 11/13/76 THRU 11/13/76

ESTIMATE USING METHOD OF MOMENTS

NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

PARAMETER DESCRIPTION WET SAMPLES 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

UPPER LIMITS ON MEAN LOWER 25% 50% 75% 90% 95%

STANDARD DEVIATION

MEAN MINIMUM MAXIMUM

00003# SAMPLE DEPTH, FEET 1 235.34 235.84

00011# TEMPERATURE, WATER (DEG. F) 1 57.20 57.20

00055 CONDUCTIVITY (UMHOS AT 25 DEG C) 1 2999.99 2999.99

00340 CHEMICAL OXYGEN DEMAND, .25 N K2CROT 1 35.00 35.00

00400# PH (STANDARD UNITS) 1 7.80 7.80

00410 ALKALINITY, TOTAL (MG/L AS CaCO3) 1 365.00 365.00

00440 BICARBONATE ION (MG/L AS HCO3) 1 425.00 425.00

00445 CARBONATE ION (MG/L AS CO3) 1 24.00 24.00

00540 DISSOLVED SOLIDS (PCE AT 178 DEG C, M 1 2580.00 2580.00

00608 NITROGEN, AMMONIA, DISSOLVED(MG/L AS N) 1 0.40 0.40

00613 NITROGEN, NITRITE, DISSOLVED(MG/L AS N) 1 <0.10 <0.10

00681 CARBON, ORGANIC, DISS (MG/L AS C) 1 6.00 6.00

00720 CYANIDE (MG/L AS CN) 1 <0.01 <0.01

00746 SULFIDE, DISSOLVED (MG/L AS S) 1 0.20 0.20

00900 HARDNESS, TOTAL (MG/L AS CaCO3) 1 220.00 220.00

00915 CALCIUM, DISSOLVED (MG/L AS Ca) 1 33.00 33.00

00925 MAGNESIUM, DISSOLVED (MG/L AS Mg) 1 34.00 34.00

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00930	SODIUM, DISSOLVED (MG/L AS NA)	1	740.00	740.00					
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	8.50	8.50					
00940	CHLORIDE, DISSOLVED (MG/L AS CL)	1	41.00	41.00					
00945	SULFATE, DISSOLVED (MG/L AS SO4)	1	1300.00	1300.00					
00950	FLUORIDE, TOTAL (MG/L AS F)	1	0.30	0.30					
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	8.10	8.10					
01000	ARSENIC, DISSOLVED (UG/L AS AS)	1	<10.00	<10.00					
01020	BORON, DISSOLVED (UG/L AS B)	1	400.00	400.00					
01025	CADMIUM, DISSOLVED (UG/L AS CU)	1	20.00	20.00					
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	1	<10.00	<10.00					
01040	COPPER, DISSOLVED (UG/L AS CU)	1	<100.00	<100.00					
01046	IRON, DISSOLVED (UG/L AS FE)	1	2300.00	2300.00					
01040	LEAD, DISSOLVED (UG/L AS PB)	1	<10.00	<10.00					
01056	MANGANESE, DISSOLVED (UG/L AS MN)	1	60.00	60.00					
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00					
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	5699.97	5699.97					
01090	ZINC, DISSOLVED (UG/L AS ZN)	1	<100.00	<100.00					

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

AQUIFER X METHOD 3

G-S M-5
NUMBER
OF

CCRE-HOLE
PARAMETER DESCRIPTION ANALYSES

01106	ALUMINUM, DISSOLVED (UG/L AS AL)	1	<100.00	<100.00	
01130	LITHIUM, DISSOLVED (UG/L AS LI)	1	200.00	200.00	
01145	SELENIUM, DISSOLVED (UG/L AS SE)	1	<10.00	<10.00	
32730	PHENOLS (UG/L)	1	<1.00	<1.00	
70507	PHOSPHORUS, TOTAL ORTHOC (MG/L AS P)	1	<0.10	<0.10	
71870	BROMIDE (MG/L)	1	<0.10	<0.10	
71890	MERCURY DISSOLVED (UG/L AS PG)	1	<1.00	<1.00	

END OF CCRE-HOLE G-S M-5 AQUIFER X METHOD 3 WET SAMPLES REPORTING PERIOD IS 11/13/76 THRU 11/13/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CCKE-HOLE G-S S-11 ALUIFER A METHOD 3
OF

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

22

48.38

40.47

44.43

0.95

44.85

44.01

43.79

44.43

45.07

45.65

45.99

00011# TEMPERATURE, WATER
(DEG. F)

23

56.80

43.50

50.16

3.19

51.54

48.79

48.01

50.16

52.31

54.25

55.40

00015# CALCIUM, DISSOLVED
(MG/L AS CA)

18

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

18

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

99999.00

00930# SODIUM, DISSOLVED
(MG/L AS NA)

18

99999.00

2.00

6.11

1.89

8.68

4.30

3.98

6.11

9.40

13.85

17.45

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

19

1.00

0.01

0.23

7.86

0.61

0.08

0.06

0.23

0.91

3.19

6.73

00955# SILICA, DISSOLVED
(MG/L AS SiO2)

18

10.00

2.00

4.85

1.09

5.06

4.64

4.57

4.85

5.14

5.42

5.60

01005# BARIUM, DISSOLVED
(UG/L AS BA)

9

10.00

1.00

2.78

3.37

6.95

1.11

1.23

2.78

6.31

13.19

20.48

01006# ALUMINIUM (UG/L)

19

4999.99

10.00

45.76

5.38

102.61

20.41

14.70

45.76

142.39

395.21

727.72

01010# BERYLLIUM, DISSOLVED
(UG/L AS BE)

1

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01020# BORON, DISSOLVED
(UG/L AS B)

19

500.00

10.00

321.34

2.31

479.90

215.17

182.85

321.34

564.71

937.61

1269.70

01030# CHROMIUM, DISSOLVED
(UG/L AS CR)

2

10.00

0.10

1.00

25.95

20090.82

0.00

0.11

1.00

9.01

65.02

212.02

01035# COBALT, DISSOLVED
(UG/L AS CO)

1

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01040# COPPER, DISSOLVED
(UG/L AS CU)

18

50.00

1.00

8.40

1.26

9.42

7.50

7.19

8.40

9.82

11.29

12.28

01046# IRON, DISSOLVED
(UG/L AS FE)

18

2000.00

10.00

77.65

1.53

95.90

62.87

58.24

77.65

103.53

134.10

156.54

01049# LEAD, DISSOLVED
(UG/L AS PB)

9

100.00

1.00

3.53

6.67

13.91

0.80

0.92

3.33

11.98

37.90

75.47

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

19

500.00

1.00

30.91

10.07

93.67

10.20

6.50

30.91

146.90

566.72

1370.62

1200ASA-2

CCRE-HOLE G-S S-11 AQUIFER A METHOD 3

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REPORT DATE 03/10/77

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

25%

UPPER

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

01060 MOLYBDENUM, DISS
(UG/L AS MO)

11

50.00

1.00

2.34

6.37

8.00

0.69

0.67

2.34

8.17

25.12

49.18

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

1.00

1.00

01075* SILVER, DISSOLVED
(UG/L AS AG)

5

1.00

0.10

0.63

2.80

2.00

0.19

0.31

0.63

1.26

2.36

3.43

01080* STRONTIUM, DISSOLVED
(UG/L AS SR)

17

100.00

100.00

100.00

1.01

100.55

99.45

99.28

100.00

100.72

101.38

101.77

01085 VANADIUM, DISSOLVED
(UG/L AS V)

1

10.00

10.00

01090* ZINC, DISSOLVED
(UG/L AS ZN)

6

20.00

1.00

2.42

4.00

9.65

0.61

0.95

2.42

6.16

14.29

23.62

01100 TIN, DISSOLVED (UG/L
AS SN)

1

1.00

1.00

01125 GERMANIUM, DISSOLVED
(UG/L AS GE)

1

1.00

1.00

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

13

10.00

1.00

2.42

3.21

4.87

1.21

1.10

2.42

5.33

10.81

16.50

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

13

10.00

1.00

4.94

5.05

13.05

1.87

1.66

4.94

14.76

39.44

71.01

09503 RADIUM (UG/L)

12

1000.00

100.00

444.96

1.66

611.01

324.03

316.61

444.96

625.34

849.23

1019.79

02703 URANIUM (UG/L)

1

5.00

5.00

END OF CCRE-HOLE G-S S-11 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

CORE-HOLE G-S S-11 AQUIFER A METHOD - 3													
PARAMETER	DESCRIPTION	ANALYSES OF	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
							UPPER	LOWER	25%	50%	75%	90%	95%
00003#	SAMPLE DEPTH, FEET	22	48.38	40.47	44.43	0.95	44.85	44.01	43.79	44.43	45.07	45.65	45.99
00011#	TEMPERATURE, WATER (DEG. F)	23	56.80	43.50	50.16	3.19	51.54	48.79	48.01	50.16	52.31	54.25	55.40
00095	CONDUCTIVITY (UMHOS AT 25 DEG C)	23	2252.00	1560.00	1813.39	1.12	1904.10	1727.00	1680.06	1813.39	1957.30	2056.45	2184.35
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	4	27.00	9.90	18.08	1.53	32.65	10.01	13.57	18.08	24.10	31.21	36.43
00400#	PH (STANDARD UNITS)	22	7.20	6.00	6.31	0.22	6.41	6.22	6.16	6.31	6.46	6.59	6.67
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	23	560.00	390.00	533.85	1.05	545.84	522.12	515.61	533.85	552.73	570.28	581.04
00440	BICARBONATE ION (MG/L AS HCO3)	23	680.00	475.00	659.63	1.04	671.42	648.04	641.59	659.63	678.16	695.28	705.72
00445*	CARBONATE ION (MG/L AS CO3)	23	48.00	<0.10	0.40	11.31	1.15	0.14	0.08	0.40	2.07	5.04	21.79
00540	DISSOLVED SOLIDS (RCE AT 178 DEG C, M)	23	1650.00	1110.00	1442.45	1.07	1485.97	1400.21	1376.90	1442.45	1511.12	1575.65	1615.55
00608*	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	5	5.30	<0.10	0.29	5.24	1.96	0.04	0.10	0.29	0.89	2.44	4.46
00613*	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	7	150.00	<0.01	0.25	26.54	4.67	0.01	0.03	0.25	2.28	16.69	54.87
00625*	NITROGEN, TOTAL KJELDAHL (MG/L AS N)	8	4.10	<0.10	1.87	3.32	4.97	0.70	0.83	1.87	4.20	8.71	13.47
00660*	PHOSPHATE, DISSOLVED GRHO (MG/L AS PO4)	7	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
00681	CARBON, ORGANIC; DISS (MG/L AS C)	19	115.00	2.00	33.19	3.57	61.14	18.02	14.06	33.19	78.34	169.59	269.13
00720*	CYANIDE (MG/L AS CN)	19	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	4	0.20	<0.10	0.12	1.41	0.19	0.07	0.09	0.12	0.15	0.19	0.21
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	21	810.00	540.00	715.78	1.08	741.25	691.19	679.52	715.78	753.98	790.07	812.47

CUPE-PRILE 0-3-11 PROVIDED A METHOD OF ANALYSES										WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%					
00915 CALCIUM, DISSOLVED (MG/L AS CA)	23	210.00	58.00	129.95	1.36	148.43	113.78	105.55	129.95	160.00	192.92	215.75					
00925* MAGNESIUM, DISSOLVED (MG/L AS MG)	21	145.00	3.70	76.74	2.07	106.87	55.10	46.89	76.74	125.58	195.56	254.87					
00930 SODIUM, DISSOLVED (MG/L AS NA)	23	350.00	180.00	238.15	1.18	256.06	221.50	212.61	238.15	266.76	295.41	313.99					
00935* PCTASSIUM, DISSOLVED (MG/L AS K)	8	14.00	1.60	5.35	2.05	9.61	2.98	3.29	5.35	8.69	13.45	17.46					
00940 CHLORIDE, DISSOLVED (MG/L AS CL)	23	41.00	9.60	20.29	1.49	24.10	17.09	15.51	20.29	26.56	33.83	39.09					
00945 SULFATE, DISSOLVED (MG/L AS SO4)	23	720.00	340.00	580.31	1.11	606.32	555.41	541.83	580.31	621.52	661.07	695.92					
00950 FLUORIDE, TOTAL (MG/L AS F)	23	0.60	0.10	0.21	1.53	0.25	0.18	0.16	0.21	0.28	0.36	0.42					
00955 SILICA, DISSOLVED (MG/L AS SiO2)	23	41.00	21.00	34.64	1.06	35.58	33.73	33.22	34.64	36.12	37.51	38.36					
01000* ARSENIC, DISSOLVED (UG/L AS AS)	18	<10.00	<10.00	<10.00	1.00												
01005* BARIUM, DISSOLVED (UG/L AS BA)	15	<1000.00	<1000.00	<1000.00	1.00												
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	1	<20.00	<20.00														
01020 BORON, DISSOLVED (UG/L AS B)	22	26999.95	70.00	271.26	2.68	419.31	175.48	139.52	271.26	527.39	958.93	1371.11					
01025* CADMIUM, DISSOLVED (UG/L AS CD)	19	1100.00	<10.00	24.88	3.33	44.37	13.95	11.04	24.88	56.10	116.54	180.46					
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	19	200.00	<10.00	13.87	2.27	20.57	9.35	7.97	13.87	24.13	39.72	53.50					
01040* COPPER, DISSOLVED (UG/L AS CU)	19	2399.99	<10.00	159.25	3.67	297.23	85.32	66.24	159.25	382.88	842.68	1350.66					
01046* IRON, DISSOLVED (UG/L AS FE)	23	16999.95	<50.00	1337.65	10.56	3698.58	483.78	272.43	1337.65	6567.83	27471.52	64644.50					
01049 LEAD, DISSOLVED (UG/L AS PB)	19	1000.00	30.00	165.84	3.61	307.30	89.50	69.68	165.84	394.68	800.74	1372.07					

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

01056 MANGANESE, DISSOLVED

(UG/L AS MN)

22

14999.96

<50.00

1429.59

14.66

4685.96

436.14

233.43

1429.59

8755.32

44672.84

118388.00

01060* MOLYBDENUM, DISS

(UG/L AS MO)

2

<100.00

<100.00

<100.00

1.00

01065 NICKEL, DISSOLVED

(UG/L AS NI)

15

200.00

20.00

65.72

2.07

98.10

44.03

40.21

65.72

107.42

167.11

217.65

01075* SILVER, DISSOLVED

(UG/L AS AG)

15

70.00

<10.00

13.08

1.83

18.23

9.36

8.70

13.08

19.66

28.37

35.33

01080* STRONTIUM, DISSOLVED

(UG/L AS SR)

2

4999.99

2899.99

3807.88

1.47

12291.68

1179.65

2936.16

3807.88

4938.39

6258.98

7175.14

01090* ZINC, DISSOLVED

(UG/L AS ZN)

18

3199.99

30.00

399.64

3.47

740.25

215.75

172.49

399.64

925.93

1971.18

3057.18

01106* ALUMINUM, DISSOLVED

(UG/L AS AL)

4

1200.00

<100.00

186.12

3.46

1044.09

33.18

80.46

186.12

430.54

915.26

1436.85

01130* LITHIUM, DISSOLVED

(UG/L AS LI)

4

<100.00

<100.00

<100.00

1.00

01145* SELENIUM, DISSOLVED

(UG/L AS SE)

19

<10.00

<10.00

<10.00

1.00

01503 GROSS ALPHA,

DISSOLVED (PC/L)

16

31.00

3.80

14.56

1.87

20.26

10.47

9.56

14.56

22.18

32.38

40.60

03501* GROSS BETA,

DISSOLVED (PC/L)

5

35.00

4.00

9.24

2.36

24.75

3.45

5.18

9.24

16.48

27.72

37.85

31501 TOTAL COLIFORM

1

20.00

20.00

31615

1

<10.00

<10.00

32730* PHENOLS (UG/L)

4

13.00

<1.00

1.90

3.61

11.26

0.32

0.80

1.90

4.51

9.83

15.66

38260 MBAS (MG/L)

1

<0.01

<0.01

70507* PHOSPHORUS, TOTAL

ORTHO (MG/L AS P)

23

0.30

<0.10

0.11

1.34

0.13

0.10

0.09

0.11

0.14

0.16

0.18

71846 NITROGEN, AMMONIA

DISS (MG/L AS NH4)

17

1.70

<0.10

0.48

1.75

0.63

0.36

0.33

0.48

0.69

0.98

1.20

H20QASA-2 CORE-HOLE G-S S-11 AQUIFER A METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
71851 NITROGEN, NITRATE DISS (MG/L AS NO3)	21	165.00	0.30	15.20	1.55	18.52 12.48	11.33 15.20 20.40 26.56 31.11
71870* BPCMIDE (MG/L)	2	0.90	<0.10	0.26	3.07	2.06 0.03	0.12 0.26 0.56 1.11 1.66
71890 MERCURY DISSOLVED (UG/L AS HG)	19	<10.00	<1.00	<1.44	4.09		

END OF CORE-HOLE G-S S-11 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 02/01/77

--- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
OF

PARAMETER DESCRIPTION

95%

75%

50%

25%

LOWER

UPPER

90%

95%

01060	POLYBROMENUM, DISS (UG/L AS MO)	11	50.00	1.00	2.64	8.22	10.70	0.65	0.64	2.64	10.95	59.36	84.50
01065*	NICKEL, DISSOLVED (UG/L AS NI)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01075*	SILVER, DISSOLVED (UG/L AS AG)	5	100.00	1.00	4.57	8.65	54.67	0.38	1.07	4.57	19.62	72.72	159.18
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	17	100.00	10.00	76.27	2.15	112.80	51.57	45.51	76.27	127.80	203.30	268.35
01085*	VIADADIUM, DISSOLVED (UG/L AS V)	2	20.00	10.00	14.14	1.63	62.83	3.18	10.16	14.14	19.69	26.51	31.67
01090*	ZINC, DISSOLVED (UG/L AS ZN)	4	20.00	1.00	3.76	4.74	32.57	0.43	1.32	3.76	10.75	27.62	48.58
01100*	TIN, DISSOLVED (UG/L AS SN)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01120*	GALLIUM, DISSOLVED (UG/L AS GA)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	14	100.00	1.00	2.68	4.43	6.30	1.14	0.98	2.68	7.32	18.07	31.02
01150	TITANIUM, DISSOLVED (UG/L AS TI)	14	500.00	1.00	1.41	4.21	3.21	0.62	0.53	1.41	3.72	8.90	15.00
01160	ZIPCCONIUM, DISSOLVED (UG/L AS ZR)	1	10.00	10.00									
09503	RADIUM (UG/L)	12	1200.00	100.00	224.49	1.91	337.14	149.47	145.10	224.49	347.31	514.23	650.26

END OF CORE-HOLE G-S S-12 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/31/75 THRU 02/01/77

--- ESTIMATE USING METHOD OF MOMENTS

--- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDWET SAMPLES
95% CONFIDENCE
LIMITS ON MEANSTANDARD
DEVIATIONMAXIMUM
MINIMUMANALYSES
CF
NUMBER

PARAMETER DESCRIPTION

22 35.53 25.04 33.28 1.30 33.86 32.71 32.41 33.28 34.16 34.95 35.42

23 64.70 42.80 47.36 4.51 49.30 45.42 44.32 47.36 50.40 53.14 54.77

23 2090.00 1210.00 1627.81 1.08 1682.80 1574.61 1545.35 1627.81 1714.67 1706.73 1847.67

4 20.00 <1.00 6.22 3.89 40.95 0.95 2.49 6.22 15.56 35.46 58.04

21 6.90 6.00 6.43 0.37 6.60 6.26 6.17 6.43 6.68 6.91 7.04

21 665.00 51.00 494.97 1.68 625.66 391.58 349.34 494.97 701.30 959.38 1157.10

23 810.00 550.00 656.01 1.15 697.35 617.12 596.19 656.01 721.83 786.64 828.15

23 54.00 <0.10 0.73 16.32 2.43 0.22 0.11 0.73 4.80 26.17 72.11

23 2090.00 1080.00 1281.46 1.10 1334.12 1230.88 1203.21 1281.46 1364.81 1444.37 1494.16

5 1.10 <0.10 0.24 2.77 0.73 0.08 0.12 0.24 0.49 0.90 1.31

7 35.00 <0.01 0.15 16.14 1.76 0.01 0.02 0.15 0.96 5.19 14.25

8 2.00 <0.10 1.26 2.82 2.93 0.54 0.63 1.26 2.53 4.75 6.91

7 0.40 0.10 0.13 1.73 0.22 0.08 0.09 0.13 0.19 0.27 0.33

19 270.00 2.00 28.08 5.05 61.12 12.90 9.41 28.08 83.81 224.03 403.36

18 <0.01 <0.01 <0.01 1.00 0.46 0.04 0.09 0.14 0.22 0.33 0.41

3 0.30 <0.10 0.14 1.89 0.46 0.04 0.09 0.14 0.22 0.33 0.41

21 820.00 510.00 661.65 1.11 693.18 631.56 617.40 661.65 709.08 754.02 783.24

00003* SAMPLE DEPTH, FEET

00011* TEMPERATURE, WATER (DEG. F)

00095 CONDUCTIVITY (UMHOS AT 25 DEG C)

00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR07

00400* PH (STANDARD UNITS)

00410* ALKALINITY, TOTAL (MG/L AS CaCO3)

00440 BICARBONATE ION (MG/L AS HCO3)

00445* CARBONATE ION (MG/L AS CO3)

00540 DISSOLVED SOLIDS (RDE AT 178 DEG C, M)

00608* NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)

00613* NITROGEN, NITRATE, DISSOLVED (MG/L AS N)

00625* NITROGEN, TOTAL KJELDAHL (MG/L AS N)

00660* PHOSPHATE, DISSOLVED ORTHO (MG/L AS PO4)

00681 CARBON, ORGANIC, DISS (MG/L AS C)

00720* CYANIDE (MG/L AS CN)

00746* SULFIDE, DISSOLVED (MG/L AS S)

00900 HARDNESS, TOTAL (MG/L AS CaCO3)

25% 50% 75% 90% 95%

WET SAMPLES

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

90%

95%

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
OF

PARAMETER DESCRIPTION

00915	CALCIUM, DISSOLVED (MG/L AS CA)	23	170.00	28.00	105.20	1.23	114.34	96.38	91.73	105.20	120.66	136.49	146.93
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	23	140.00	65.00	99.30	1.15	105.67	93.32	90.11	99.30	109.44	119.44	125.85
00930	SODIUM, DISSOLVED (MG/L AS NA)	23	450.00	150.00	197.46	1.22	214.90	181.43	172.97	197.46	225.43	253.94	272.69
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	8	16.00	1.00	4.62	2.28	9.05	2.36	2.65	4.62	8.06	13.29	17.93
00940	CHLORIDE, DISSOLVED (MG/L AS CL)	23	71.00	12.00	21.38	1.21	23.24	19.66	18.76	21.38	24.36	27.39	29.38
00945	SULFATE, DISSOLVED (MG/L AS SO4)	21	1000.00	390.00	436.29	1.09	454.01	419.27	411.22	436.29	462.90	488.20	503.99
00950	FLUORIDE, TOTAL (MG/L AS F)	23	1.10	0.10	0.35	1.19	0.38	0.33	0.31	0.35	0.40	0.45	0.47
00955	SILICA, DISSOLVED (MG/L AS SiO2)	23	40.00	18.00	33.39	1.11	34.93	31.92	31.12	33.39	35.83	38.17	39.64
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	18	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	15	<1000.00	<1000.00	<1000.00	1.00							
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	1	<20.00	<20.00									
01020	BORON, DISSOLVED (UG/L AS B)	22	9999.58	30.00	293.87	5.49	623.83	138.44	93.14	293.87	927.26	2605.96	4834.39
01025	CADMIUM, DISSOLVED (UG/L AS CD)	19	80.00	<10.00	10.00	1.14	10.68	9.38	9.13	10.00	10.96	11.90	12.50
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	19	200.00	<10.00	13.87	2.27	20.57	9.35	7.97	13.87	24.13	39.72	53.50
01040	COPPER, DISSOLVED (UG/L AS CU)	19	6199.98	<10.00	98.50	1.42	116.48	83.29	77.81	98.50	124.68	154.12	174.59
01046	IRON, DISSOLVED (UG/L AS FE)	23	21999.93	<50.00	1559.94	24.94	6247.97	389.47	177.92	1559.94	13677.09	96359.19309711.19	
01049	LEAD, DISSOLVED (UG/L AS PB)	19	800.00	20.00	187.63	4.90	402.45	87.48	64.18	187.63	548.51	1439.23	2562.54

CULPEPER-HOLE 0-3-12 ANOIFER A REINFORCING													
PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
							UPPER	LOWER	25%	50%	75%	90%	95%
01056	MANGANESE, DISSOLVED (UG/L AS MN)	22	26959.95	<50.00	1244.00	14.42	4048.30	382.27	205.37	1244.00	7535.23	38068.38	100289.19
01060*	MOLYBDENUM, DISS (UG/L AS MO)	2	<100.00	<100.00	<100.00	1.00							
01065	NICKEL, DISSOLVED (UG/L AS NI)	15	200.00	10.00	94.18	2.23	146.47	60.56	54.79	94.18	161.90	265.53	352.67
01075*	SILVER, DISSOLVED (UG/L AS AG)	15	40.00	<10.00	11.49	1.47	14.23	9.28	8.84	11.49	14.93	18.90	21.77
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	5795.98	3899.99	4756.04	1.32	11170.75	2024.92	3935.29	4756.04	5747.55	6915.43	7546.32
01090	ZINC, DISSOLVED (UG/L AS ZN)	18	2099.99	30.00	311.70	5.24	707.70	137.28	101.94	311.70	953.10	2604.02	4749.90
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	4	900.00	<100.00	173.20	3.00	795.79	37.70	82.51	173.20	363.59	708.31	1055.40
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	4	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	19	<10.00	<10.00	<10.00	1.00							
01503	GROSS ALPHA, DISSOLVED (PC/L)	15	28.00	5.80	9.80	1.56	12.50	7.67	7.26	9.80	13.21	17.30	20.32
03501*	GROSS BETA, DISSOLVED (PC/L)	4	11.00	1.00	3.43	2.69	13.55	0.87	1.76	3.43	6.69	12.20	17.47
21501	TOTAL COLIFORM	1	150.00	150.00									
21615		1	20.00	20.00									
32730*	PHENOLS (UG/L)	3	7.00	<1.00	1.91	3.08	15.07	0.24	0.90	1.91	4.08	6.08	12.14
38260	MBAS (MG/L)	1	<0.01	<0.01									
70507*	PHOSPHORUS, TOTAL (MG/L AS P)	23	0.60	<0.10	0.13	1.56	0.15	0.10	0.09	0.13	0.17	0.22	0.26
71840*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	17	1.40	<0.10	0.23	2.23	0.35	0.15	0.14	0.23	0.40	0.65	0.87

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CORE-HOLE G-S S-12 AQUIFER A METHOD 3
NUMBER CF

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	21	4.70	0.50	2.69	1.39	3.12	2.31	2.15	2.69	3.36	4.10	4.62
71870*	PHOSPHATE (MG/L)	3	0.90	<0.10	0.32	2.88	2.22	0.05	0.16	0.32	0.65	1.23	1.81
71890*	MERCURY DISSOLVED (UG/L AS PG)	19	<10.00	<1.00	<2.48	2.76							

END OF CORE-HOLE G-S S-12 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/31/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTEDSTANDAKO
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

NUMBER
OF

DEPTH, FEET

TEMPERATURE, WATER
(DEG. F)CALCIUM, DISSOLVED
(MG/L AS CA)MAGNESIUM, DISSOLVED
(MG/L AS MG)SODIUM, DISSOLVED
(MG/L AS NA)POTASSIUM, DISSOLVED
(MG/L AS K)SILICA, DISSOLVED
(MG/L AS SIO2)BARIUM, DISSOLVED
(UG/L AS BA)

ALUMINIUM (UG/L)

BERYLLIUM, DISSOLVED
(UG/L AS BE)BORON, DISSOLVED
(UG/L AS B)CHROMIUM, DISSOLVED
(UG/L AS CR)COBALT, DISSOLVED
(UG/L AS CO)COPPER, DISSOLVED
(UG/L AS CU)IRON, DISSOLVED
(UG/L AS FE)LEAD, DISSOLVED
(UG/L AS PB)MANGANESE, DISSOLVED
(UG/L AS MN)

25%

50%

75%

90%

95%

57.50

55.85

8547.61165754.81576099.56

16.29

25.74

5.52

109.56

11162.25

1981.82

31.67

62.63

3509.54

125.74

483.77

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CCRE-HOLE G-S S-19 AQUIFER A METHOD 3
OF
NUMBER

REPORT DATE 03/10/77

PAGE 293

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

01060	MOLYBDENUM, DISS (UG/L AS MO)	11	50.00	1.00	3.74	12.97	20.49	0.68	0.66	3.74	21.10	99.98	253.50
01065	NICKEL, DISSOLVED (UG/L AS NI)	1	1.00	1.00									
01075*	SILVER, DISSOLVED (UG/L AS AG)	5	100.00	1.00	3.98	7.84	42.50	0.37	0.99	3.98	15.99	55.80	117.85
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	12	1000.00	100.00	121.15	1.94	184.04	79.75	77.35	121.15	189.75	284.07	361.59
01085*	VANADIUM, DISSOLVED (UG/L AS V)	2	20.00	1.00	4.47	8.32	2816.29	0.01	1.07	4.47	18.68	67.59	145.83
01090*	ZINC, DISSOLVED (UG/L AS ZN)	9	20.00	1.00	1.80	3.26	4.39	0.74	0.81	1.80	4.00	8.19	12.57
01100*	TIN, DISSOLVED (UG/L AS SN)	4	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01120*	GALLIUM, DISSOLVED (UG/L AS GA)	2	10.00	1.00	3.16	5.09	448.29	0.02	1.05	3.16	9.49	25.50	46.05
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	9	10.00	1.00	2.78	3.37	6.99	1.11	1.23	2.78	6.31	13.19	20.48
01150	TITANIUM, DISSOLVED (UG/L AS TI)	10	1000.00	1.00	3.43	3.22	7.83	1.51	1.56	3.43	7.56	15.39	23.53
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	1	10.00	10.00									
09503*	RADIUM (UG/L)	5	600.00	100.00	282.52	2.06	649.24	122.94	173.35	282.52	460.46	714.43	929.05

END OF CORE-HOLE G-S S-19 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED95%
75%
50%
25%WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003#	SAMPLE DEPTH, FEET	15	58.18	49.11	53.43	2.48	54.79	52.06	51.75	53.43	55.10	56.60	57.50
00011#	TEMPERATURE, WATER (DEG. F)	15	55.40	46.50	50.56	3.21	52.33	48.80	48.40	50.56	52.73	54.68	55.85
00095	CONDUCTIVITY (UMHOS AT 25 DEG C)	15	2000.00	1420.00	1639.01	1.07	1702.24	1578.14	1564.65	1639.01	1716.91	1790.12	1835.39
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CR07	5	31.00	9.90	18.90	1.80	55.43	6.44	12.73	18.90	28.06	40.05	49.53
00400#	PH (STANDARD UNITS)	14	6.90	6.00	6.54	0.35	6.74	6.34	6.30	6.54	6.77	6.98	7.11
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	15	500.00	340.00	450.84	1.09	472.79	429.91	425.30	450.84	477.92	503.66	519.70
00440	BICARBONATE ION (MG/L AS HCO3)	15	610.00	380.00	541.91	1.14	581.31	505.17	497.20	541.91	590.64	638.19	668.44
00445*	CARBONATE ION (MG/L AS CO3)	15	56.00	<0.10	0.48	15.15	2.15	0.11	0.08	0.48	3.02	15.71	42.14
00540	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	15	1670.00	1190.00	1298.70	1.08	1353.79	1245.94	1234.15	1298.70	1366.61	1430.71	1470.47
00608*	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	4	0.40	0.10	0.17	1.94	0.42	0.07	0.11	0.17	0.26	0.39	0.50
00613*	NITROGEN, NITRATE, DISSOLVED (MG/L AS N)	5	5.20	<0.01	0.12	10.24	1.68	0.01	0.02	0.12	0.56	2.28	5.32
00625*	NITROGEN, TOTAL KJELDAHL (MG/L AS N)	6	5.40	<0.10	0.86	5.62	4.83	0.15	0.27	0.86	2.76	7.87	14.73
00660*	PHOSPHATE, DISSOLVED ORTHO (MG/L AS PO4)	6	0.10	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
00681	CARBON, ORGANIC, DISS (MG/L AS C)	11	174.00	2.00	72.76	4.95	210.31	25.17	24.72	72.76	214.18	565.45	1010.49
00720*	CYANIDE (MG/L AS CN)	11	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	2	0.40	<0.10	0.20	2.67	3.95	0.01	0.10	0.20	0.39	0.70	1.00
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	14	730.00	550.00	680.38	1.07	706.24	655.46	651.14	680.38	710.93	739.58	757.26

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CORE-POLE G-S S-19 AQUIFER A METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	LIMITS ON MEAN			THAN OR EQUAL TO VALUE LISTED			
						UPPER	LOWER	25%	50%	75%	90%	95%
00915 CALCIUM, DISSOLVED (MG/L AS CA)	15	240.00	82.00	100.68	1.20	111.10	91.23	89.22	100.68	113.61	126.65	135.16
00925* MAGNESIUM, DISSOLVED (MG/L AS MG)	15	120.00	12.00	80.76	1.75	109.78	59.40	55.41	80.76	117.70	165.16	202.25
00930 SODIUM, DISSOLVED (MG/L AS NA)	15	310.00	165.00	194.21	1.15	209.47	180.06	176.99	194.21	213.10	231.65	243.51
00935* POTASSIUM, DISSOLVED (MG/L AS K)	6	10.00	1.10	4.20	2.30	9.64	1.83	2.39	4.20	7.36	12.20	16.50
00940 CHLORIDE, DISSOLVED (MG/L AS CL)	15	41.00	8.20	15.68	1.44	19.53	13.08	12.50	15.98	20.44	25.49	29.09
00945 SULFATE, DISSOLVED (MG/L AS SO4)	15	780.00	500.00	537.78	1.10	565.74	511.21	505.36	537.78	572.29	605.19	625.76
00950 FLUORIDE, TOTAL (MG/L AS F)	15	0.60	0.10	0.24	1.82	0.33	0.17	0.16	0.24	0.36	0.51	0.64
00955 SILICA, DISSOLVED (MG/L AS SI02)	15	43.00	16.00	31.44	1.23	35.25	28.05	27.33	31.44	36.18	41.04	44.26
01000* ARSENIC, DISSOLVED (UG/L AS AS)	11	<10.00	<10.00	<10.00	1.00							
01005* BARIUM, DISSOLVED (UG/L AS BA)	9	<1000.00	<1000.00	<1000.00	1.00							
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	1	2459.99	2493.59									
01020 BORON, DISSOLVED (UG/L AS B)	14	2000.00	<10.00	198.81	2.34	323.79	122.07	111.95	198.81	353.06	591.76	805.89
01025* CADMIUM, DISSOLVED (UG/L AS CU)	12	60.00	<10.00	17.30	2.07	27.32	10.96	10.60	17.30	28.25	43.90	57.15
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	11	<10.00	<10.00	<10.00	1.00							
01040* COPPER, DISSOLVED (UG/L AS CU)	12	7959.97	100.00	299.05	5.34	858.17	104.21	96.48	299.05	926.92	2563.57	4710.36
01046* IRON, DISSOLVED (UG/L AS FE)	15	16959.95	<50.00	1489.64	11.51	5713.95	388.35	286.30	1489.64	7750.71	34154.36	82915.56
01049 LEAD, DISSOLVED (UG/L AS PB)	11	12959.96	20.00	102.37	5.55	319.29	32.82	32.19	102.37	325.58	521.52	1716.79

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
					95% CONFIDENCE LIMITS ON MEAN	UPPER	LOWER	25%	50%	75%	90%	95%
01056* MANGANESE, DISSOLVED (UG/L AS MN)	14 13959.95	<50.00	732.22	9.25	2621.36	204.53	163.11	732.22	3287.10	12684.78	28445.00	
01060* MOLYBDENUM, DISS (UG/L AS MO)	2 <100.00	<100.00	<100.00	1.00								
01065* NICKEL, DISSOLVED (UG/L AS NI)	9 200.00	30.00	84.42	2.12	148.82	47.86	50.79	84.42	140.30	221.53	251.13	
01075* SILVER, DISSOLVED (UG/L AS AG)	8 30.00	<10.00	11.47	1.47	15.75	8.36	8.83	11.47	14.91	18.88	21.73	
01080* STRONTIUM, DISSOLVED (UG/L AS SR)	2 5759.38	2799.99	4029.87	1.67	19307.55	841.11	2846.69	4029.87	5704.82	7799.03	9400.77	
01090* ZINC, DISSOLVED (UG/L AS ZN)	12 5659.97	<100.00	503.26	3.96	1196.77	211.64	198.66	503.28	1275.00	2941.34	4848.95	
01106* ALUMINUM, DISSOLVED (UG/L AS AL)	2 200.00	<100.00	141.42	1.63	628.33	31.83	101.59	141.42	196.88	265.10	316.72	
01130* LITHIUM, DISSOLVED (UG/L AS LI)	3 <100.00	<100.00	<100.00	1.00								
01145* SELENIUM, DISSOLVED (UG/L AS SE)	12 <10.00	<10.00	<10.00	1.00								
01503* GROSS ALPHA, DISSOLVED (PC/L)	9 24.00	3.60	11.05	1.89	17.82	6.85	7.20	11.05	16.95	24.90	31.35	
03501* GROSS BETA, DISSOLVED (PC/L)	5 30.00	3.00	9.71	2.70	30.44	3.10	4.97	9.71	18.99	34.71	49.79	
21501 TOTAL COLIFORM	1 <10.00	<10.00										
21615	1 <10.00	<10.00										
22730* PHENOLS (UG/L)	2 <1.00	<1.00	<1.00	1.00								
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	15 0.60	<0.10	0.12	1.62	0.15	0.09	0.09	0.12	0.16	0.22	0.26	
71846* NITROGEN, AMMONIA DISS (MG/L AS NH4)	8 2.00	<0.10	0.31	2.92	0.74	0.13	0.15	0.31	0.63	1.21	1.79	
71851 NITROGEN, NITRATE DISS (MG/L AS NO3)	14 59.00	1.00	5.03	1.35	5.98	4.23	4.10	5.03	6.17	7.41	8.27	

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

NUMBER
OF

71870* BROMIDE (MG/L)

2

<0.10

<0.10

<0.10

1.00

71890* MERCURY DISSOLVED
(UG/L AS HG)

12

<10.00

<1.00

<1.62

1.95

END OF CORE-HOLE G-S S-19 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER LIMIT	LOWER LIMIT	25%	50%	75%	90%	95%
00003# SAMPLE DEPTH, FEET	17	68.00	64.98	65.76	0.82	66.18	65.35	65.21	65.76	66.32	66.81	67.11
00011# TEMPERATURE, WATER (DEG. F)	17	54.00	46.00	49.22	2.77	50.64	47.81	47.35	49.22	51.09	52.77	53.78
00915 CALCIUM, DISSOLVED (MG/L AS CA)	13	99999.00	99999.00									
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	13	99999.00	99999.00									
00930# SODIUM, DISSOLVED (MG/L AS NA)	11	99999.00	5.00	7.94	1.41	10.31	6.11	6.28	7.94	10.03	12.38	14.04
00935 POTASSIUM, DISSOLVED (MG/L AS K)	15	1.00	0.01	0.39	14.66	1.97	0.08	0.06	0.39	2.42	12.34	32.71
00955* SILICA, DISSOLVED (MG/L AS SiO2)	12	5.00	2.00	3.68	1.57	4.80	2.77	2.72	3.68	5.00	6.57	7.74
01005* BARIUM, DISSOLVED (UG/L AS BA)	6	10.00	1.00	1.47	2.56	3.75	0.57	0.78	1.47	2.77	4.90	6.89
01006 ALUMINIUM (UG/L)	13	1000.00	1.00	31.66	18.29	180.59	5.55	4.45	31.66	225.17	1314.29	3774.69
01020 BORON, DISSOLVED (UG/L AS B)	13	500.00	20.00	524.02	1.51	671.84	408.72	396.05	524.02	693.34	841.85	1036.77
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01040 COPPER, DISSOLVED (UG/L AS CU)	13	50.00	1.00	3.66	3.87	8.24	1.63	1.47	3.66	9.13	20.77	33.96
01046 IRON, DISSOLVED (UG/L AS FE)	13	500.00	1.00	33.16	8.01	115.35	9.53	8.14	33.16	135.09	477.78	1016.98
01049* LEAD, DISSOLVED (UG/L AS PB)	5	100.00	1.00	8.71	5.25	58.24	1.29	2.84	8.71	26.65	72.88	133.01
01056 MANGANESE, DISSOLVED (UG/L AS MN)	10	100.00	1.00	19.40	8.24	85.73	4.39	4.67	19.40	90.55	289.75	623.00
01060* MOLYBDENUM, DISS (UG/L AS MU)	9	20.00	1.00	3.88	3.69	10.39	1.45	1.61	3.88	9.37	20.09	33.22
01075* SILVER, DISSOLVED (UG/L AS AG)	6	5.00	1.00	1.31	1.93	2.52	0.68	0.84	1.31	2.04	3.04	3.85

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

95%

75%

50%

25%

LOWER

UPPER

MEAN

MINIMUM

MAXIMUM

ANALYSES

CF

NUMBER

DESCRIPTION

PARAMETER

01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	12	100.00	100.00	1.01	100.44	99.56	99.53	100.00	100.47	100.90	101.16
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	1.00	1.00								
01090*	ZINC, DISSOLVED (UG/L AS ZN)	4	10.00	1.00	3.16	20.02	0.50	1.29	3.16	7.76	17.38	29.17
01100*	TIN, DISSOLVED (UG/L AS SN)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01120	GALLIUM, DISSOLVED (UG/L AS GA)	1	1.00	1.00								
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	8	10.00	1.00	3.16	8.63	1.16	1.38	3.16	7.26	15.32	23.95
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	9	100.00	1.00	3.33	13.91	0.40	0.92	3.33	11.98	37.90	75.47
09503*	RADIUM (UG/L)	6	500.00	100.00	293.56	541.44	159.16	194.11	293.56	443.95	643.98	804.41

END OF CORE-HOLE G-S S-22 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD CF MOMENTS
-- NO LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2			CORE-HOLE G-S S-22 AQUIFER A METHOD - 3			REPORT DATE 03/10/77			PAGE 300		
PARAMETER DESCRIPTION ANALYSES			NUMBER OF			THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			95%		

PARAMETER DESCRIPTION ANALYSES	NUMBER OF	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN				THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED			
						UPPER	LOWER	25%	50%	75%	90%	95%	
00915 CALCIUM, DISSOLVED (MG/L AS CA)	17	190.00	37.00	72.67	1.45	87.83	60.13	56.60	72.67	93.31	116.82	133.63	
00925* MAGNESIUM, DISSOLVED (MG/L AS MG)	17	150.00	52.00	126.80	1.27	143.35	112.17	107.87	126.80	149.06	172.40	188.07	
00930 SODIUM, DISSOLVED (MG/L AS NA)	17	280.00	175.00	219.44	1.20	241.21	198.64	193.71	219.44	248.60	278.11	297.41	
00935* POTASSIUM, DISSOLVED (MG/L AS K)	8	14.00	1.00	5.17	2.31	10.23	2.61	2.93	5.17	9.10	15.14	20.52	
00940 CHLORIDE, DISSOLVED (MG/L AS CL)	17	41.00	9.90	18.31	1.27	20.69	16.22	15.60	18.31	21.50	24.83	27.07	
00945 SULFATE, DISSOLVED (MG/L AS SO4)	17	710.00	495.00	551.16	1.10	578.27	525.31	517.32	551.16	587.20	621.62	643.16	
00950 FLUORIDE, TOTAL (MG/L AS F)	17	1.20	0.10	0.39	1.36	0.45	0.33	0.31	0.39	0.48	0.57	0.64	
00955 SILICA, DISSOLVED (MG/L AS SiO2)	17	35.00	17.00	28.34	1.07	29.34	27.37	27.06	28.34	29.67	30.92	31.70	
01000* ARSENIC, DISSOLVED (UG/L AS AS)	12	<10.00	<10.00	<10.00	1.00								
01005* BARIUM, DISSOLVED (UG/L AS BA)	9	<1000.00	<1000.00	<1000.00	1.00								
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	1	<20.00	<20.00										
01020 ZINC, DISSOLVED (UG/L AS ZN)	16	3559.99	30.00	379.37	2.24	581.77	247.39	220.08	379.37	653.56	1067.11	1430.16	
01025* CADMIUM, DISSOLVED (UG/L AS CD)	13	50.00	<10.00	12.49	1.87	18.15	8.60	8.20	12.49	19.03	27.78	34.84	
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	13	100.00	<10.00	11.94	1.89	17.50	8.14	7.76	11.94	18.37	27.07	34.13	
01040* COPPER, DISSOLVED (UG/L AS CU)	13	1100.00	100.00	220.13	2.43	374.60	129.34	120.91	220.13	400.78	686.94	948.12	
01046 IRON, DISSOLVED (UG/L AS FE)	17	15959.95	<50.00	799.58	16.50	3357.97	190.58	120.60	799.98	5306.57	29091.49	60477.69	
01049 LEAD, DISSOLVED (UG/L AS PB)	13	400.00	60.00	119.77	1.83	172.01	83.40	79.66	119.77	180.08	259.87	323.60	

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

50% 75% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

UPPER LOWER

50% 75% 95%

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

01056	MANGANESE, DISSOLVED (UG/L AS MN)	16	1300.00	<50.00	128.94	6.14	337.44	49.27	37.87	128.94	439.05	1321.42	2553.95
01060*	MOLYBDENUM, DISS (UG/L AS MO)	2	<100.00	<100.00	<100.00	1.00							
01065*	NICKEL, DISSOLVED (UG/L AS NI)	9	70.00	20.00	43.01	1.46	57.19	32.35	33.33	43.01	55.51	65.83	80.09
01075*	SILVER, DISSOLVED (UG/L AS AG)	9	20.00	10.00	10.80	1.26	12.86	9.07	9.24	10.80	12.62	14.52	15.79
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	6469.99	3599.99	4837.34	1.52	17245.40	1356.87	3648.66	4837.34	6413.25	8264.44	9617.80
01090	ZINC, DISSOLVED (UG/L AS ZN)	13	1100.00	<100.00	207.47	3.02	402.52	106.94	98.33	207.47	437.79	856.82	1460.23
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	3	100.00	100.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	4	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	13	<10.00	<10.00	<10.00	1.00							
01503	GROSS ALPHA, DISSOLVED (PC/L)	10	18.00	3.30	11.62	1.38	14.60	9.24	9.33	11.62	14.46	17.60	19.80
03501*	GROSS BETA, DISSOLVED (PC/L)	6	31.00	5.00	10.00	1.96	19.61	5.10	6.35	10.00	15.77	23.74	30.31
21501	TOTAL COLIFORM	1	60.00	60.00									
21615		1	<10.00	<10.00									
32730*	PHENOLS (UG/L)	4	5.00	<1.00	1.50	2.24	4.57	0.49	0.87	1.50	2.57	4.20	5.62
38260	MBAS (MG/L)	1	<0.01	<0.01									
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	17	0.40	0.10	0.12	1.50	0.15	0.10	0.09	0.12	0.16	0.21	0.24
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	11	5.30	0.03	0.31	4.42	0.82	0.11	0.11	0.31	0.83	2.05	3.52

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	15	4.40	0.60	2.71	1.44	3.31	2.21	2.11	2.71	3.47	4.33	4.95
71870*	BROMIDE (MG/L)	3	0.40	<0.10	0.16	2.23	0.69	0.04	0.09	0.16	0.27	0.44	0.59
71890*	MERCURY DISSOLVED (UG/L AS Hg)	13	<2.00	<1.00	<1.31	1.42							

END OF CORE-HOLE G-S S-22 ANALYSES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS
-- NO LOG TRANSFORM
VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H2004SA-2

CORE-HOLE G-S S-23 AQUIFER A METHOD 3
NUMBER OF ANALYSES

REPORT DATE 03/10/77

PAGE 304

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

00002# SAMPLE DEPTH, FEET

17 65.47

28.45

31.58

8.79

36.08

27.08

25.65

31.58

37.51

42.84

46.03

00011# TEMPERATURE, WATER
(DEG. F)

17 55.00

46.20

48.94

2.34

50.14

47.74

47.36

48.94

50.52

51.94

52.79

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

13 99999.00

99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

13 99999.00

99999.00

00930# SODIUM, DISSOLVED
(MG/L AS NA)

12 99999.00

2.00

5.27

1.60

7.52

3.69

3.83

5.27

7.24

9.64

11.44

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

12 1.00

0.01

0.14

15.33

0.80

0.03

0.02

0.14

0.91

4.78

12.88

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

12 10.00

2.00

4.91

1.41

6.10

3.95

3.89

4.91

6.20

7.65

8.67

01005* BARIUM, DISSOLVED
(UG/L AS BA)

5 10.00

1.00

1.58

2.80

5.18

0.49

0.79

1.58

3.18

5.93

8.62

01006 ALUMINUM (UG/L)

13 1000.00

10.00

133.35

13.38

630.76

28.19

23.15

133.35

768.06

3708.53

9509.00

01020* ZINC, DISSOLVED
(UG/L AS ZN)

13 500.00

20.00

339.01

2.50

587.01

195.78

182.62

339.01

629.31

1097.63

1530.85

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

3 1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

13 50.00

1.00

8.61

1.26

9.89

7.50

7.37

8.61

10.06

11.58

12.59

01046 IRON, DISSOLVED
(UG/L AS FE)

13 200.00

1.00

48.91

3.17

97.58

24.51

22.46

48.91

106.51

214.48

325.96

01049* LEAD, DISSOLVED
(UG/L AS PB)

7 500.00

1.00

17.49

10.10

138.22

2.21

3.67

17.49

83.31

339.15

785.23

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

12 100.00

1.00

10.57

4.15

25.88

4.32

4.04

10.57

27.63

65.58

109.95

01060 MCLYBCEUM, DISS
(UG/L AS M)

10 50.00

1.00

3.92

7.08

15.58

0.99

1.05

3.92

14.71

48.25

58.18

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1 70.00

70.00

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

25% 50% 75% 90% 95%

PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%
01075* SILVER, DISSOLVED (UG/L AS AG)	2	10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01080* STRONTIUM, DISSOLVED (UG/L AS SR)	12	100.00	100.00	100.00	1.01	100.44	99.56	99.53	100.00	100.47	100.90	101.16
01085 VANADIUM, DISSOLVED (UG/L AS V)	1	1.00	1.00									
01090* ZINC, DISSOLVED (UG/L AS ZN)	6	10.00	1.00	2.15	3.28	7.07	0.66	0.97	2.15	4.81	9.89	15.23
01130* LITHIUM, DISSOLVED (UG/L AS LI)	9	10.00	1.00	2.15	3.16	5.13	0.90	0.99	2.15	4.69	9.43	14.32
01150* TITANIUM, DISSOLVED (UG/L AS TI)	9	100.00	1.00	3.56	5.33	12.69	1.02	1.16	3.59	11.12	30.68	56.31
05503* RADIUM (UG/L)	5	300.00	100.00	164.37	1.62	286.41	94.34	118.65	164.37	227.72	305.29	363.79
22703 URANIUM (UG/L)	1	8.00	8.00									

END OF CORE-HOLE G-S S-23 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEANSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003*	SAMPLE DEPTH, FEET	17	65.47	28.45	31.58	8.79	36.06	27.08	25.65	31.58	37.51	42.84	46.03
00011*	TEMPERATURE, WATER (DEG. F)	17	55.00	46.20	48.98	2.38	50.20	47.76	47.37	48.98	50.59	52.04	52.90
00095	CONDUCTIVITY (UMHOS AT 25 DEG C)	17	2275.00	1540.00	1790.55	1.06	1843.31	1739.30	1723.26	1790.55	1860.47	1925.67	1965.74
00340*	CHEMICAL OXYGEN DEMAND, .25 N K2CRO7	4	35.00	2.50	8.51	3.13	41.44	1.75	3.94	8.51	18.36	36.72	55.55
00400*	PH (STANDARD UNITS)	16	7.00	6.00	6.28	0.40	6.50	6.07	6.01	6.28	6.55	6.80	6.95
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	17	580.00	430.00	484.55	1.07	501.41	468.33	463.26	484.59	506.89	527.83	540.76
00440*	BICARBONATE ION (MG/L AS HCO3)	17	710.00	520.00	588.78	1.08	611.59	566.81	559.98	588.78	619.06	647.62	665.32
00445*	CARBONATE ION (MG/L AS CO3)	16	18.00	<0.01	0.12	4.28	0.26	0.06	0.04	0.12	0.32	0.77	1.31
00540	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	17	1500.00	1210.00	1402.16	1.04	1431.74	1373.18	1364.07	1402.16	1441.31	1477.45	1489.49
00608*	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	5	0.60	0.10	0.19	2.42	0.52	0.07	0.10	0.19	0.34	0.58	0.81
00613*	NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	7	3.90	<0.01	0.06	6.92	0.46	0.01	0.02	0.08	0.30	0.97	1.96
00625*	NITROGEN, TOTAL KJELDAHL (MG/L AS N)	8	5.40	<0.10	1.02	4.54	3.52	0.30	0.37	1.02	2.64	7.12	12.34
00660*	PHOSPHATE, DISSOLVED ORTH (MG/L AS PO4)	7	1.00	<0.10	0.14	2.39	0.30	0.06	0.08	0.14	0.25	0.42	0.58
00681	CARBON, ORGANIC, DISS (MG/L AS C)	14	50.00	2.00	14.50	2.98	27.10	7.76	6.95	14.50	30.28	58.69	87.18
00720*	CYANIDE (MG/L AS CN)	13	<0.01	<0.01	<0.01	1.00							
00746*	SULFIDE, DISSOLVED (MG/L AS S)	4	1.60	<0.10	0.24	3.71	1.47	0.04	0.10	0.24	0.58	1.28	2.06
00900	HARDNESS, TOTAL (MG/L AS CaCO3)	15	800.00	650.00	730.43	1.06	752.63	708.89	704.10	730.43	757.75	783.19	798.81

H2CCASA-2			CORE-HOLE G-S S-23 AQUIFER A METHOD 3			REPORT DATE 03/10/77				PAGE 307		
PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED					
					95% CONFIDENCE LIMITS ON MEAN UPPER	LOWER	25%	50%	75%	95%		
00915 CALCIUM, DISSOLVED (MG/L AS CA)	17	170.00	50.00	96.04	1.29	109.32	84.37	80.95	96.04	113.94	132.86	145.65
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	17	145.00	67.00	122.96	1.11	130.01	116.34	114.29	122.98	132.33	141.34	147.02
00930 SODIUM, DISSOLVED (MG/L AS NA)	17	300.00	150.00	198.43	1.26	223.02	176.54	170.08	198.43	231.49	265.91	288.90
00935* POTASSIUM, DISSOLVED (MG/L AS K)	8	14.00	<1.00	3.62	2.25	7.03	1.87	2.09	3.62	6.27	10.26	13.78
00940 CHLORIDE, DISSOLVED (MG/L AS CL)	17	55.00	9.90	15.43	1.49	18.91	12.59	11.80	15.43	20.18	25.68	29.67
00945 SULFATE, DISSOLVED (MG/L AS SO4)	17	690.00	510.00	591.10	1.10	621.94	561.79	552.75	591.10	632.11	671.41	696.07
00950 FLUORIDE, TOTAL (MG/L AS F)	17	0.70	0.10	0.24	1.89	0.33	0.17	0.16	0.24	0.37	0.55	0.69
00955 SILICA, DISSOLVED (MG/L AS SiO2)	17	44.00	17.00	28.15	1.07	29.07	27.25	26.97	28.15	29.38	30.53	31.24
01000* ARSENIC, DISSOLVED (UG/L AS AS)	12	<10.00	<10.00	<10.00	1.00							
01005* BARIUM, DISSOLVED (UG/L AS BA)	9	<1000.00	<1000.00	<1000.00	1.00							
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)	1	400.00	400.00									
01020 BORON, DISSOLVED (UG/L AS B)	16	900.00	30.00	105.80	3.49	205.20	54.55	45.51	105.80	245.98	225.27	226.84
01025* CADMIUM, DISSOLVED (UG/L AS CD)	13	80.00	<10.00	14.01	2.02	21.34	9.20	8.72	14.01	22.50	34.46	44.47
01030* CHROMIUM, DISSOLVED (UG/L AS CR)	13	100.00	<10.00	11.94	1.89	17.50	8.14	7.76	11.94	18.37	27.07	34.13
01040* COPPER, DISSOLVED (UG/L AS CU)	13	1000.00	<100.00	199.01	2.27	324.96	121.87	114.53	199.01	345.80	568.34	764.99
01046* IPCN, DISSOLVED (UG/L AS FE)	17	17699.56	<50.00	356.31	7.99	1032.36	122.98	87.59	356.31	1449.48	5119.25	10887.29
01049 LEAD, DISSOLVED (UG/L AS PB)	13	300.00	30.00	88.54	2.82	164.77	47.58	43.98	88.54	178.27	324.48	487.31

H20QASA-2

CCRE-HOLE G-S 5-23 AQUIFER A METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
OF

PARAMETER DESCRIPTION

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

16

12999.96

<50.00

220.56

7.05

620.74

78.37

59.05

220.56

823.86

2664.79

5474.07

01060* MOLYBDENUM, DISS
(UG/L AS MO)

2

<100.00

<100.00

<100.00

1.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

9

200.00

10.00

48.60

2.71

102.97

22.94

24.81

95.18

174.22

250.09

01075* SILVER, DISSOLVED
(UG/L AS AG)

5

40.00

<10.00

11.67

1.59

16.53

8.23

8.54

15.94

21.09

24.95

01080* STRONTIUM, DISSOLVED
(UG/L AS SR)

2

5499.99

2599.99

3781.53

1.70

18951.73

754.54

2644.73

3781.53

5406.97

7457.56

9038.70

01090 ZINC, DISSOLVED
(UG/L AS ZN)

13

2599.99

<100.00

124.07

1.88

181.21

84.95

80.96

124.07

190.13

279.09

351.10

01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

3

200.00

100.00

125.69

1.49

262.80

60.40

96.17

125.99

165.06

210.45

243.35

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

4

<100.00

<100.00

<100.00

1.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

13

<10.00

<10.00

<10.00

1.00

01503 GROSS ALPHA,
DISSOLVED (PC/L)

10

25.00

3.30

11.73

1.74

17.30

7.95

8.08

11.73

17.02

23.81

29.09

03501* GROSS BETA,
DISSOLVED (PC/L)

4

27.00

2.00

10.39

3.15

51.09

2.11

4.79

10.39

22.55

45.24

68.62

31501 TOTAL COLIFORM

1

90.00

90.00

31615

1

<10.00

<10.00

32730* PHENOLS (UG/L)

4

<1.00

<1.00

<1.00

1.00

28260 MBAS (MG/L)

1

<0.01

<0.01

70507* PHOSPHORUS, TOTAL
ORTH (MG/L AS P)

17

1.60

<0.10

0.15

2.40

0.23

0.09

0.08

0.15

0.27

0.45

0.62

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

11

2.00

<0.10

0.33

2.81

0.65

0.17

0.16

0.33

0.66

1.24

1.80

H2004SA-2

CORE-HOLE G-S S-23 AQUIFER A METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

95%

50%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER

PARAMETER DESCRIPTION

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3)

15

4.60

<0.10

3.33

1.43

4.05

2.73

2.62

3.33

4.23

5.25

5.97

71870* BROMIDE (MG/L)

3

0.90

<0.10

0.36

3.12

2.88

0.04

0.17

0.36

0.77

1.53

2.31

71890* MERCURY DISSOLVED
(UG/L AS Hg)

15

<2.00

<1.00

<1.38

1.43

END OF CORE-HOLE G-S S-23 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE G-S S-24 AQUIFER A METHOD 3
OF

REPORT DATE 03/10/77

PAGE

310

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

17

9.67

5.20

6.67

0.98

7.17

6.17

6.01

6.67

7.33

7.93

8.28

00011# TEMPERATURE, WATER
(DEG. F)

17

52.50

44.20

48.20

3.72

50.10

46.30

45.69

48.20

50.71

52.97

54.32

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

13

99999.00

10.00

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

13

99999.00

5.00

7.07

1.63

31.42

1.59

5.08

7.07

9.84

13.25

15.84

00930# SODIUM, DISSOLVED
(MG/L AS NA)

12

99999.00

5.00

5.45

1.28

6.00

4.47

4.62

5.45

6.43

7.47

8.16

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

13

1.00

0.01

0.17

34.31

1.42

0.02

0.02

0.17

1.85

15.85

57.20

00955 SILICA, DISSOLVED
(MG/L AS SIO2)

12

10.00

2.00

4.54

2.32

7.72

2.67

2.57

4.54

8.02

13.38

18.17

01005# BARIUM, DISSOLVED
(UG/L AS BA)

5

10.00

1.00

2.51

3.53

10.71

0.59

1.07

2.51

5.88

12.65

20.00

01006 ALUMINIUM (UG/L)

13

1000.00

10.00

101.58

10.33

411.52

25.07

21.00

101.58

491.36

2027.76

4733.38

01020 BOPCN, DISSOLVED
(UG/L AS B)

13

500.00

20.00

395.20

1.87

575.62

271.33

258.70

395.20

603.72

223.72

1109.87

01030# CHROMIUM, DISSOLVED
(UG/L AS CR)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

13

50.00

1.00

16.15

4.06

37.39

6.98

6.27

16.15

41.58

57.34

161.88

01046 IPCN, DISSOLVED
(UG/L AS FE)

13

1000.00

1.00

28.15

2.35

46.98

16.87

15.81

28.15

50.13

94.22

114.86

01049# LEAD, DISSOLVED
(UG/L AS PB)

6

100.00

1.00

7.65

5.97

45.55

1.28

2.29

7.65

25.54

75.52

144.43

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

10

500.00

1.00

74.16

9.11

351.81

15.63

16.69

74.16

329.57

1200.34

2811.00

01060 MOLYBDENUM, DISS
(UG/L AS MO)

10

10.00

1.00

6.61

7.29

26.80

1.63

1.73

6.61

25.27

24.37

173.49

01075# SILVER, DISSOLVED
(UG/L AS AG)

4

10.00

1.00

1.78

3.16

8.72

0.36

0.82

1.76

3.87

7.78

11.82

H2001SA-2

CORE-HOLE G-S S-24 AQUIFER A METHOD 3

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SPECTROGRAPHIC SAMPLES
 95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

95%

90%

75%

50%

25%

LOWER

UPPER

MEAN

MINIMUM

MAXIMUM

ANALYSES
NUMBER
OF

PARAMETER DESCRIPTION

01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	12	100.00	10.00	82.54	1.94	125.39	54.33	52.70	82.54	129.28	193.54	246.35
01085	VANADIUM, DISSOLVED (UG/L AS V)	1	1.00	1.00									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	4	10.00	1.00	3.16	3.78	20.02	0.50	1.29	3.16	7.76	17.38	28.17
01100*	TIN, DISSOLVED (UG/L AS SN)	2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	8	10.00	1.00	3.16	3.42	8.63	1.16	1.38	3.16	7.26	15.32	23.95
01150*	TITANIUM, DISSOLVED (UG/L AS TI)	7	100.00	1.00	4.69	7.73	29.18	0.75	1.18	4.69	18.65	64.54	135.57
05503*	RADIUM (UG/L)	5	700.00	200.00	367.68	1.81	726.43	186.10	246.53	367.68	548.38	735.59	974.00

END OF CORE-HOLE G-S S-24 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

* -- NO LOG TRANSFORM

VALUES OF "99999.00" ARE "NAJUF" CONCENTRATIONS

H20045A-2

CCRE-HOLE G-S S-24 AQUIFER A METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD

DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

OF

NUMBER

CC900 HARDNESS, TOTAL
(MG/L AS CaCO_3)

15

700.00

415.00

656.21

1.08

683.64

629.88

624.06

656.21

690.02

721.91

741.68

D0915 CALCIUM, DISSOLVED
(MG/L AS CA)

17

160.00

31.00

96.71

1.46

117.48

79.61

74.82

96.71

125.00

157.44

180.73

D0925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

17

145.00

31.00

106.01

1.25

118.87

94.54

91.14

106.01

123.30

141.24

153.20

D0930 SODIUM, DISSOLVED
(MG/L AS NA)

17

310.00

130.00

186.75

1.24

208.88

166.96

161.09

186.75

216.46

247.25

267.69

D0935* POTASSIUM, DISSOLVED
(MG/L AS K)

7

12.00

1.00

3.63

2.12

7.12

1.86

2.19

3.63

6.04

5.53

12.52

D0940 CHLORIDE, DISSOLVED
(MG/L AS CL)

17

30.00

9.50

14.69

1.37

17.27

12.49

11.87

14.69

18.19

22.03

24.71

D0945 SULFATE, DISSOLVED
(MG/L AS SO_4)

17

560.00

450.00

468.47

1.05

479.90

457.30

453.80

468.47

483.61

497.64

506.23

CC950 FLUORIDE, TOTAL
(MG/L AS F)

17

0.80

0.10

0.24

1.54

0.30

0.19

0.18

0.24

0.32

0.42

0.49

C0955 SILICA, DISSOLVED
(MG/L AS SiO_2)

17

30.00

17.00

28.26

1.04

28.80

27.73

27.57

28.26

28.97

25.62

30.02

D1000* ARSENIC, DISSOLVED
(UG/L AS AS)

12

<10.00

<10.00

<10.00

1.00

D1005* BARIUM, DISSOLVED
(UG/L AS BA)

9

<1000.00

<1000.00

<1000.00

1.00

D1010 BERYLLIUM, DISSOLVED
(UG/L AS BE)

1

1300.00

1300.00

D1020 BORON, DISSOLVED
(UG/L AS B)

15

8199.99

<10.00

294.05

2.95

532.83

162.28

141.81

294.05

609.72

1174.74

1738.85

D1025* CADMIUM, DISSOLVED
(UG/L AS CD)

13

100.00

<10.00

15.24

1.98

22.99

10.11

9.60

15.24

24.21

36.71

47.08

D1030* CHROMIUM, DISSOLVED
(UG/L AS CR)

13

200.00

<10.00

12.59

2.30

20.71

7.65

7.19

12.59

22.06

36.53

49.39

D1040 COPPER, DISSOLVED
(UG/L AS CU)

13

1300.00

<100.00

147.12

2.33

243.94

88.73

83.23

147.12

260.09

434.13

589.77

D1046* IRON, DISSOLVED
(UG/L AS FE)

17

13299.94

<50.00

579.82

11.07

1984.03

169.45

114.45

579.82

2937.50

12637.91

30244.14

H2CQASA-2

CCRE-HOLE G-S S-24 AQUIFER A METHOD 3

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PARAMETER DESCRIPTION ANALYSES

NUMBER
OF

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%01049 LEAD, DISSOLVED
(UG/L AS PB)

13

800.00

10.00

135.38

3.58

290.51

63.09

57.27

135.38

320.02

693.69

1101.78

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

16

2099.99

<50.00

217.91

7.46

632.06

75.12

56.14

217.91

845.84

2863.96

5939.18

01060* MOLYBDENUM, DISS
(UG/L AS MG)

2

<100.00

<100.00

<100.00

1.00

01065* NICKEL, DISSOLVED
(UG/L AS NI)

9

100.00

10.00

35.11

2.64

72.99

16.89

18.23

35.11

67.60

121.85

173.32

01075* SILVER, DISSOLVED
(UG/L AS AG)

9

40.00

<10.00

13.18

1.74

19.99

8.69

9.08

13.18

19.14

26.76

32.71

01080* STRONTIUM, DISSOLVED
(UG/L AS SR)

2

4599.98

2899.99

3652.38

1.39

9853.21

1353.86

2930.63

3652.38

4551.88

5948.48

6245.88

01090 ZINC, DISSOLVED
(UG/L AS ZN)

13

12999.96

100.00

119.23

2.16

189.33

75.08

70.80

119.23

200.76

320.77

444.52

01106* ALUMINUM, DISSOLVED
(UG/L AS AL)

3

<100.00

<100.00

<100.00

1.00

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

4

<100.00

<100.00

<100.00

1.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

13

<10.00

<10.00

<10.00

1.00

01503 GROSS ALPHA,
DISSOLVED (PC/L)

10

23.00

1.70

9.29

1.96

14.91

5.79

5.91

9.29

14.62

21.97

28.02

03501* GROSS BETA,
DISSOLVED (PC/L)

4

24.00

4.00

13.07

2.24

40.04

4.27

7.58

13.07

22.53

36.76

49.27

01501 TOTAL COLIFORM

1

<10.00

<10.00

<10.00

1.00

01615

02730* PHENOLS (UG/L)

4

<1.00

<1.00

<1.00

1.00

038260 MBAS (MG/L)

1

<0.01

<0.01

<0.01

1.18

0.11

0.10

0.09

0.10

0.12

0.13

0.14

70507* PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

17

0.20

0.10

0.10

1.18

0.11

0.10

0.09

0.10

0.12

0.13

0.14

H20GASA-2

CORE-HOLE G-S S-24 AQUIFER A METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER
OF

PARAMETER DESCRIPTION

71846	NITROGEN, AMMONIA DISS (MG/L AS NH4)	11	2.00	<0.10	0.22	3.37	0.49	0.10	0.22	0.50	1.04	1.61
71851	NITROGEN, NITRATE DISS (MG/L AS NO3)	15	12.50	2.00	5.86	1.46	7.22	4.75	5.86	7.57	9.55	10.96
71870*	BROMIDE (MG/L)	3	0.80	<0.10	0.20	3.32	1.82	0.02	0.20	0.45	0.93	1.44
71890*	MERCURY DISSOLVED (UG/L AS HG)	13	<2.00	<1.00	<1.31	1.42						

END OF CORE-HOLE G-S S-24 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 06/30/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QAS1-2

CCRE-HOLE G-S S-7
NUMBER
CF

3

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REPORT DATE 03/10/77

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

LOWER

UPPER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

22 34.57 15.15 22.47 1.91 23.31 21.62 21.18 22.47 23.76 24.92 25.61

00011# TEMPERATURE, WATER
(DEG. F)

23 54.10 42.00 48.27 2.89 49.52 47.02 46.32 48.27 50.22 51.98 53.03

00915# CALCIUM, DISSOLVED
(MG/L AS CA)

15 99999.00 10.00 10.00 1.00 10.07 9.93 9.98 10.00 10.02 10.03 10.04

00925# MAGNESIUM, DISSOLVED
(MG/L AS MG)

15 99999.00 5.00 5.00 1.00 5.02 4.98 4.99 5.00 5.01 5.01 5.01

00930 SODIUM, DISSOLVED
(MG/L AS NA)

18 99999.00 2.00 4.77 2.08 7.55 3.01 2.91 4.77 7.81 12.18 15.89

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

19 2.00 0.01 0.65 8.34 1.79 0.23 0.15 0.65 2.70 9.78 21.12

00955 SILICA, DISSOLVED
(MG/L AS SIO2)

18 20.00 2.00 4.50 2.64 7.27 2.78 2.34 4.50 8.65 15.58 22.14

01005 BARIUM, DISSOLVED
(UG/L AS BA)

12 50.00 1.00 3.06 12.64 15.08 0.62 0.55 3.06 16.95 79.05 198.57

01006 ALUMINIUM (UG/L)

15 2000.00 10.00 98.60 1.43 117.04 83.07 77.49 98.60 125.47 155.83 177.39

01010 BERYLLIUM, DISSOLVED
(UG/L AS BE)

1 1.00 1.00

01020# BORON, DISSOLVED
(UG/L AS B)

19 500.00 10.00 290.36 2.53 453.82 185.77 154.98 290.36 543.98 655.69 1340.90

01030# CHROMIUM, DISSOLVED
(UG/L AS CR)

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

19 50.00 1.00 7.74 9.51 22.92 2.62 1.69 7.74 35.40 135.94 314.76

01046 IRON, DISSOLVED
(UG/L AS FE)

15 2000.00 1.00 40.27 5.47 91.07 17.81 12.79 40.27 126.82 355.78 659.33

01049# LEAD, DISSOLVED
(UG/L AS PB)

6 100.00 1.00 2.15 6.55 14.09 0.33 0.61 2.15 7.66 23.99 47.48

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

15 500.00 1.00 3.38 4.87 7.22 1.58 1.16 3.38 9.83 25.68 45.60

01060 MOLYBDENUM, DISS
(UG/L AS MO)

13 50.00 1.00 5.57 4.30 13.34 2.33 2.08 5.57 14.91 36.11 61.29

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

UPPER LOWER 25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

1.00

1.00

10.00

68.73

0.01

0.21

1.00

4.73

19.14

44.16

01075* SILVER, DISSOLVED
(UG/L AS AG)

3

10.00

1.00

10.00

68.73

0.01

0.21

1.00

4.73

19.14

44.16

01080* STRONTIUM, DISSOLVED
(UG/L AS SR)

17

100.00

87.33

1.75

116.23

65.62

59.90

87.33

127.32

178.71

218.88

01085 VANADIUM, DISSOLVED
(UG/L AS V)

1

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

01090* ZINC, DISSOLVED
(UG/L AS ZN)

4

10.00

1.78

3.16

8.79

0.36

0.82

1.78

3.87

7.78

11.82

01100* TIN, DISSOLVED (UG/L
AS SN)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

14

10.00

1.64

2.67

2.87

0.93

0.85

1.64

3.17

5.76

8.22

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

14

100.00

2.74

6.39

7.92

0.95

0.78

2.74

9.56

29.47

57.77

05503* RADIUM (UG/L)

9

400.00

173.71

1.76

265.93

113.46

118.64

173.71

254.33

358.34

439.88

END OF CORE-HOLE G-S S-7 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/31/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LOG TRANSFORM

VALUES OF "CSCCG.0" ARE "MAJOR" CONCENTRATIONS

H2OQASA-2

CCRE-HOLE G-S S-7
NUMBER OF ANALYSES

AQUIFER A METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

90%

95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

22

34.57

15.15

22.47

1.91

21.62

21.18

22.47

23.76

24.92

25.61

00011# TEMPERATURE, WATER
(DEG. F)

23

54.10

42.00

48.27

2.89

47.02

46.32

48.27

50.22

51.98

53.03

00095 CONDUCTIVITY (UMHOS
AT 25 DEG C)

23

1800.00

960.00

1111.76

1.06

1084.07

1068.74

1111.76

1156.52

1198.30

1224.01

00310 BOD, 5 DAY (MG/L)

1

3.80

3.80

00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CR07

4

16.00

5.00

9.52

1.78

4.29

6.46

9.52

14.03

19.88

24.48

00400# PH (STANDARD UNITS)

21

6.80

6.00

6.39

0.28

6.52

6.20

6.39

6.58

6.76

6.86

00410 ALKALINITY, TOTAL
(MG/L AS CaCO3)

23

419.00

310.00

371.08

1.08

358.41

351.45

371.08

391.80

411.42

423.62

00440 RICARPCNATE ICN
(MG/L AS HC03)

23

510.00

360.00

450.85

1.07

437.02

429.41

450.85

473.36

494.56

507.69

00445# CARBONATE ICN (MG/L
AS CO3)

23

24.00

<0.10

0.16

4.76

0.31

0.08

0.16

0.46

1.18

2.08

00540 DISSOLVED SOLIDS
(ROE AT 178 DEG C, M

23

945.00

640.00

811.85

1.08

785.96

771.72

811.85

854.07

893.91

918.61

00608# NITROGEN, AMMONIA,
DISSOLVED (MG/L AS N)

5

2.00

<0.10

0.43

3.27

1.67

0.19

0.43

0.95

1.96

3.01

00613# NITROGEN, NITRITE,
DISSOLVED (MG/L AS N)

7

19.00

<0.01

0.14

12.71

1.33

0.01

0.14

0.76

3.57

8.98

00625# NITROGEN, TOTAL
KJELDAHL (MG/L AS N)

8

3.40

<0.10

1.37

3.78

4.06

0.56

1.37

3.37

7.56

12.25

00660# PHOSPHATE, DISSOLVED
ORTHO (MG/L AS PO4)

7

<0.10

<0.10

<0.10

1.00

2.66

7.31

14.13

27.34

49.49

70.57

00681 CARBON, ORGANIC,
DISS (MG/L AS C)

19

63.00

3.00

14.13

2.66

22.60

8.84

14.13

27.34

49.49

70.57

00720# CYANIDE (MG/L AS CN)

17

0.02

<0.01

0.01

1.00

0.01

0.01

0.01

0.01

0.01

0.01

00746# SULFIDE, DISSOLVED
(MG/L AS S)

4

1.60

<0.10

0.20

4.00

1.37

0.08

0.20

0.51

1.18

1.96

H200ASA-2

CCRE-HOLE G-S S-7 AQUIFER A METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES
OF
NUMBER

PARAMETER DESCRIPTION

C0900 HARDNESS, TOTAL
(MG/L AS CaCO3)

21

500.00

330.00

451.87

1.06

464.16

439.91

434.20

451.87

470.26

487.44

499.01

C0915 CALCIUM, DISSOLVED
(MG/L AS Ca)

23

140.00

44.00

94.93

1.28

105.72

85.24

80.21

94.93

112.35

130.73

143.12

C0925 MAGNESIUM, DISSOLVED
(MG/L AS Mg)

23

85.00

7.30

47.17

1.32

53.20

41.82

39.08

47.17

56.94

67.45

74.63

C0930 SODIUM, DISSOLVED
(MG/L AS Na)

23

150.00

75.00

133.83

1.28

148.96

120.23

113.17

133.83

158.25

184.00

201.36

C0935* POTASSIUM, DISSOLVED
(MG/L AS K)

8

8.00

<1.00

3.01

1.90

5.07

1.79

1.95

3.01

4.63

6.83

8.62

C0940 CHLORIDE, DISSOLVED
(MG/L AS Cl)

23

20.00

1.30

9.85

1.48

11.65

8.32

7.57

9.85

12.82

16.24

18.72

C0945 SULFATE, DISSOLVED
(MG/L AS SO4)

23

350.00

150.00

286.15

1.11

299.20

273.67

266.86

286.15

306.83

326.70

339.19

C0950 FLUORIDE, TOTAL
(MG/L AS F)

23

0.70

0.20

0.36

1.83

0.46

0.28

0.24

0.36

0.54

0.77

0.96

C0955 SILICA, DISSOLVED
(MG/L AS SiO2)

23

31.00

17.00

28.28

1.08

29.19

27.40

26.91

28.28

29.72

31.07

31.91

C1000* ARSENIC, DISSOLVED
(UG/L AS AS)

16

<100.00

<10.00

<12.92

2.11

C1005* BARIUM, DISSOLVED
(UG/L AS Ba)

15

<1000.00

<1000.00

<1000.00

1.00

C1010 BERYLLIUM, DISSOLVED
(UG/L AS Be)

1

100.00

100.00

100.00

1.00

10.01

9.99

9.98

10.00

10.02

10.04

10.05

C1020* BORON, DISSOLVED
(UG/L AS B)

22

9599.97

<10.00

148.95

7.17

355.97

62.36

39.42

148.99

563.08

1961.31

3804.88

C1025* CADMIUM, DISSOLVED
(UG/L AS Cd)

19

400.00

<10.00

13.84

2.40

21.06

9.09

7.67

13.84

24.98

42.47

58.34

C1030* CHROMIUM, DISSOLVED
(UG/L AS Cr)

17

100.00

<10.00

10.00

1.00

10.01

9.99

9.98

10.00

10.02

10.04

10.05

C1040 COPPER, DISSOLVED
(UG/L AS Cu)

15

500.00

<10.00

85.95

1.22

94.64

78.13

75.15

85.99

98.39

111.07

119.41

C1046* IRON, DISSOLVED
(UG/L AS Fe)

23

14999.96

<50.00

837.52

11.59

2410.39

291.00

160.21

837.52

4378.23

19374.92

47155.08

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25%

50%

75%

90%

95%

WET SAMPLES

95% CONFIDENCE

LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

NUMBER

PARAMETER DESCRIPTION

01049	LEAD, DISSOLVED (UG/L AS PB)	19	500.00	20.00	92.24	3.25	162.39	52.39	41.65	92.24	204.28	417.57	640.36
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	22	3999.99	<50.00	265.16	5.05	542.49	129.61	88.91	265.16	790.83	2112.75	3802.45
01060*	MOLYBDENUM, DISS (UG/L AS MO)	2	<100.00	<100.00	<100.00	1.00							
01065	NICKEL, DISSOLVED (UG/L AS NI)	15	100.00	10.00	37.95	2.14	57.80	24.97	22.70	37.99	63.57	101.01	133.24
01075*	SILVER, DISSOLVED (UG/L AS AG)	15	<100.00	<10.00	<13.14	1.91							
01080*	STRONTIUM, DISSOLVED (UG/L AS SR)	2	2999.99	1799.99	2323.78	1.44	6973.77	774.32	1821.02	2323.78	2965.35	3922.23	4209.42
01090	ZINC, DISSOLVED (UG/L AS ZN)	19	800.00	10.00	320.61	2.24	472.44	217.57	155.90	320.61	552.85	921.70	1210.14
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	4	200.00	<100.00	118.92	1.41	192.39	73.51	94.11	118.92	150.26	145.45	210.31
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	4	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	19	<100.00	<10.00	<11.29	1.70							
01503	GROSS ALPHA, DISSOLVED (PC/L)	15	24.00	1.50	5.74	1.28	6.57	5.01	4.86	5.74	6.78	7.87	8.61
03501*	GROSS BETA, DISSOLVED (PC/L)	4	18.00	11.00	14.07	1.33	20.88	9.48	11.61	14.07	17.05	20.26	22.46
31501	TOTAL COLIFORM	1	250.00	250.00									
31615		1	40.00	40.00									
32730*	PHENOLS (UG/L)	4	13.00	<1.00	3.38	4.09	23.88	0.48	1.30	3.38	8.74	20.56	34.30
38260	MNAS (MG/L)	1	<0.01	<0.01									
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	21	0.20	<0.01	0.09	1.68	0.12	0.07	0.07	0.09	0.13	0.18	0.22

H20QASA-2

CORE-HOLE G-S S-7

AQUIFER A METHOD 3

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THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

OF

NUMBER

PARAMETER DESCRIPTION

71846 NITROGEN, AMMONIA
DISS (MG/L AS NH4)

16

1.40

<0.10

0.18

1.99

0.26

0.13

0.12

0.18

0.29

0.44

0.57

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3)

21

12.00

0.20

3.62

1.29

4.06

3.23

3.06

3.62

4.29

5.00

5.47

71870* BPCMIDE (MG/L)

3

0.80

<0.10

0.25

2.88

1.76

0.04

0.12

0.25

0.51

0.98

1.44

71890* MERCURY DISSOLVED
(UG/L AS HG)

19

<10.00

<1.00

<2.48

2.76

END OF CORE-HOLE G-S S-7 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/31/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE G-S S-8
NUMBER
OF

AQUIFER A METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

21

40.62

24.95

36.20

4.21

38.11

34.29

33.36

36.20

39.04

41.60

43.13

00011# TEMPERATURE, WATER
(DEG. F)

21

57.20

45.70

48.59

2.05

49.52

47.65

47.20

48.59

49.97

51.22

51.96

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

18

99999.00

99999.00

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

18

99999.00

99999.00

00930 SODIUM, DISSOLVED
(MG/L AS NA)

17

99999.00

1.00

7.39

2.06

11.17

4.89

4.54

7.39

12.02

18.62

24.19

00935 POTASSIUM, DISSOLVED
(MG/L AS K)

18

2.00

0.01

0.57

6.68

1.47

0.22

0.16

0.57

2.06

6.53

13.02

00955 SILICA, DISSOLVED
(MG/L AS SI02)

17

10.00

2.00

4.85

1.08

5.05

4.65

4.59

4.85

5.12

5.37

5.53

01005* BARIUM, DISSOLVED
(UG/L AS BA)

7

50.00

1.00

6.52

4.09

22.97

1.85

2.52

6.52

16.87

38.69

66.19

01006 ALUMINIUM (UG/L)

18

2000.00

10.00

65.25

8.63

189.67

22.45

15.24

65.25

279.41

1033.41

2259.26

01020* BORON, DISSOLVED
(UG/L AS B)

18

500.00

10.00

315.81

2.69

515.27

193.55

162.03

315.81

615.50

1121.61

1605.82

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01040 COPPER, DISSOLVED
(UG/L AS CU)

18

20.00

1.00

12.12

2.13

17.63

8.33

7.27

12.12

20.20

31.97

42.07

01046 IRON, DISSOLVED
(UG/L AS FE)

18

2000.00

10.00

45.14

2.39

69.47

29.33

25.08

45.14

81.24

137.82

189.05

01049* LEAD, DISSOLVED
(UG/L AS PB)

6

20.00

1.00

3.55

4.10

14.53

0.87

1.37

3.55

9.20

21.65

26.14

01056 MANGANESE, DISSOLVED
(UG/L AS MN)

18

500.00

1.00

19.31

7.37

51.93

7.18

5.02

19.31

74.37

250.01

516.23

01060 MOLYBDENUM, DISS
(UG/L AS MO)

12

50.00

1.00

1.17

8.26

4.40

0.31

0.28

1.17

4.85

17.46

37.56

01065 NICKEL, DISSOLVED
(UG/L AS NI)

1

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

H20QASA-2

CORE-HOLE G-S S-8
NUMBER
OF

AQUIFER A METHOD 3

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

95%

90%

75%

50%

25%

LOWER

UPPER

01075* SILVER, DISSOLVED
(UG/L AS AG)

8

10.00

0.10

0.42

5.55

1.70

0.10

0.13

0.42

1.34

3.79

7.06

01090* STRONTIUM, DISSOLVED
(UG/L AS SK)

16

100.00

100.00

100.00

1.01

100.54

99.46

99.32

100.00

100.68

101.30

101.63

01085 VANADIUM, DISSOLVED
(UG/L AS V)

1

1.00

1.00

01090* ZINC, DISSOLVED
(UG/L AS ZN)

7

10.00

1.00

1.75

2.65

4.18

0.73

0.91

1.75

3.38

6.10

8.70

01100* TIN, DISSOLVED (UG/L
AS SN)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01120 GALLIUM, DISSOLVED
(UG/L AS GA)

1

1.00

1.00

01130 LITHIUM, DISSOLVED
(UG/L AS LI)

11

100.00

1.00

4.00

10.03

18.47

0.87

0.84

4.00

19.56

76.87

177.52

01150 TITANIUM, DISSOLVED
(UG/L AS TI)

15

100.00

1.00

2.03

7.81

6.30

0.66

0.51

2.03

8.14

28.36

59.83

09503* RADIUM (UG/L)

6

800.00

100.00

261.53

2.38

622.73

109.84

145.53

261.53

470.01

796.24

1091.31

END OF CORE-HOLE G-S S-8 AQUIFER A METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 03/29/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "66999.0" ARE "MAJOR" CONCENTRATIONS

WELL NUMBER	C-CRE-HOLE	G-S	S-8	AQUIFER	A METHOD	3	PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
													UPPER	LOWER	25%	50%	75%	90%	95%
C0003*							SAMPLE DEPTH, FEET	21	40.62	24.95	36.20	4.21	38.11	34.29	33.36	36.20	39.04	41.60	43.13
C0011*							TEMPERATURE, WATER (DEG. F)	21	57.20	45.70	48.55	2.05	49.52	47.65	47.20	48.59	49.97	51.22	51.96
C0055							CONDUCTIVITY (UMHOS AT 25 DEG C)	21	1350.00	860.00	986.14	1.09	1027.03	946.82	928.24	986.14	1047.65	1106.24	1142.83
C0310							BOD, 5 DAY (MG/L)	1	3.90	3.90									
C0340*							CHEMICAL OXYGEN DEMAND, .25 N K2CR2O7	3	85.00	9.90	29.56	2.93	213.24	4.10	14.30	29.56	61.10	117.37	173.43
C0400*							PH (STANDARD UNITS)	20	7.00	6.00	6.46	0.42	6.65	6.26	6.17	6.46	6.74	7.00	7.16
C0410							ALKALINITY, TOTAL (MG/L AS CaCO3)	19	880.00	320.00	365.29	1.09	380.77	350.45	344.60	365.29	387.23	408.08	421.08
C0440							BICARBONATE ION (MG/L AS HCO3)	21	510.00	370.00	443.05	1.09	461.54	425.29	416.91	443.05	470.83	497.29	513.82
C0445*							CARBONATE ION (MG/L AS CO3)	21	36.00	<0.10	0.29	9.37	0.79	0.10	0.06	0.29	1.30	5.07	11.43
C0540							DISSOLVED SOLIDS (WGT AT 178 DEG C, M)	21	875.00	650.00	724.62	1.07	745.74	704.09	694.31	724.62	756.24	785.86	804.13
C0608*							NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	4	1.90	<0.10	0.39	3.37	2.10	0.07	0.17	0.39	0.88	1.84	2.87
C0613*							NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	5	22.00	0.05	0.35	11.70	5.97	0.02	0.07	0.35	1.86	9.27	20.20
C0625*							NITROGEN, TOTAL KJELDAHL (MG/L AS N)	6	8.80	0.70	2.38	2.25	5.35	1.06	1.37	2.38	4.11	6.73	9.04
C0660*							PHOSPHATE, DISSOLVED CATHO (MG/L AS PO4)	6	<0.10	<0.10	<0.10	1.00							
C0681							CARBON, ORGANIC, DISS (MG/L AS C)	17	292.00	2.00	14.91	4.98	33.89	6.56	5.05	14.91	44.04	116.67	208.91
C0720*							CYANIDE (MG/L AS CN)	18	<0.01	<0.01	<0.01	1.00							
C0746*							SULFIDE, DISSOLVED (MG/L AS S)	3	0.60	<0.10	0.18	2.81	1.22	0.03	0.09	0.18	0.37	0.68	1.00

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

DESCRIPTION

PARAMETER

00900	HARDNESS, TOTAL (MG/L AS CaCO ₃)	20	460.00	280.00	391.26	1.21	428.24	357.48	343.33	391.26	445.88	501.48	537.99
00915	CALCIUM, DISSOLVED (MG/L AS Ca)	21	110.00	39.00	83.48	1.17	89.51	77.85	75.25	83.48	92.60	101.66	117.49
00925	MAGNESIUM, DISSOLVED (MG/L AS Mg)	21	71.00	16.00	43.81	1.56	53.67	35.77	32.40	43.81	59.24	77.70	91.39
00930	SODIUM, DISSOLVED (MG/L AS Na)	21	190.00	66.00	117.36	1.36	135.04	102.00	95.26	117.36	144.59	174.43	195.14
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	6	7.00	1.40	2.85	1.79	5.11	1.59	1.92	2.85	4.23	6.03	7.45
00940	CHLORIDE, DISSOLVED (MG/L AS Cl)	21	34.00	7.10	12.43	1.47	14.73	10.45	9.60	12.43	16.09	20.29	23.32
00945	SULFATE, DISSOLVED (MG/L AS SO ₄)	21	235.00	190.00	202.32	1.05	206.83	197.90	195.79	202.32	209.07	215.32	219.16
00950	FLUORIDE, TOTAL (MG/L AS F)	20	0.70	0.20	0.25	1.47	0.35	0.24	0.23	0.29	0.38	0.48	0.55
00955	SILICA, DISSOLVED (MG/L AS SiO ₂)	21	33.00	16.00	28.06	1.11	29.40	26.78	26.17	28.06	30.08	32.02	33.24
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	17	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS Ba)	15	<1000.00	<1000.00	<1000.00	1.00							
01010	BERYLLIUM, DISSOLVED (UG/L AS Be)	1	600.00	600.00									
01020	BORON, DISSOLVED (UG/L AS B)	21	3499.99	<10.00	360.96	7.16	881.98	147.73	95.60	360.96	1362.90	4501.30	9196.83
01025	CADMIUM, DISSOLVED (UG/L AS Cd)	18	60.00	<10.00	13.44	2.35	20.34	8.90	7.55	13.44	23.95	40.25	54.91
01030*	CHROMIUM, DISSOLVED (UG/L AS Cr)	18	<10.00	<10.00	<10.00	1.00							
01040*	COPPER, DISSOLVED (UG/L AS Cu)	18	1000.00	<10.00	108.71	3.02	187.97	62.87	51.54	108.71	229.32	448.68	670.29
01046*	IRON, DISSOLVED (UG/L AS Fe)	21	27999.97	<50.00	967.35	11.40	2919.04	320.57	187.18	967.35	4999.27	21830.21	52963.86

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
					UPPER	LOWER	25%	50%	75%	90%	95%
01049 LEAD, DISSOLVED (UG/L AS PB)	18 300.00	10.00	138.62	1.97	193.80	99.15	87.79	138.62	218.88	330.06	421.96
01056 MANGANESE, DISSOLVED (UG/L AS MN)	20 9059.96	50.00	707.65	11.94	2249.95	222.57	132.70	707.65	3773.85	17002.56	41827.20
01060* MOLYBDENUM, DISS (UG/L AS MC)	2 <100.00	<100.00	<100.00	1.00							
01065 NICKEL, DISSOLVED (UG/L AS NI)	15 200.00	10.00	76.65	1.67	101.76	57.74	54.15	76.65	108.51	148.33	178.81
01075* SILVER, DISSOLVED (UG/L AS AG)	15 50.00	<10.00	12.55	1.65	16.92	9.53	8.95	12.55	17.59	23.83	28.58
01080* STRONTIUM, DISSOLVED (UG/L AS SP)	2 2159.99	1400.00	1754.99	1.38	4640.71	663.69	1414.45	1754.99	2177.51	2643.69	2968.88
01090* ZINC, DISSOLVED (UG/L AS ZN)	18 800.00	10.00	222.98	3.01	385.02	125.14	105.91	222.98	469.47	917.01	1368.55
01106* ALUMINUM, DISSOLVED (UG/L AS AL)	3 200.00	<100.00	125.99	1.49	262.80	60.40	96.17	125.99	165.06	210.45	243.35
01130* LITHIUM, DISSOLVED (UG/L AS LI)	3 <100.00	<100.00	<100.00	1.00							
01145* SELENIUM, DISSOLVED (UG/L AS SE)	18 <10.00	<10.00	<10.00	1.00							
01503 GROSS ALPHA, DISSOLVED (PC/L)	14 13.00	0.20	5.73	2.22	9.04	3.63	3.35	5.73	9.81	15.90	21.24
03501* GROSS BETA, DISSOLVED (PC/L)	4 30.00	1.00	6.67	4.17	48.46	0.92	2.54	6.67	17.50	41.65	69.95
32730* PFENCLS (UG/L)	3 2.00	<1.00	1.26	1.49	2.63	0.60	0.96	1.26	1.65	2.10	2.43
70507* PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	19 0.20	0.10	0.10	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10
71946 NITROGEN, AMMONIA DISS (MG/L AS NH4)	16 6.40	<0.10	0.34	3.70	0.67	0.17	0.14	0.34	0.81	1.79	2.88
71851 NITROGEN, NITRATE DISS (MG/L AS NO3)	19 5.10	0.10	3.67	1.43	4.36	3.09	2.89	3.67	4.67	5.80	6.60
71870* BROMIDE (MG/L)	2 <0.10	<0.01	<0.03	5.09							

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WET SAMPLES

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

CCRE-HOLE G-S S-8 AQUIFER A METHOD 3

NUMBER	CF
1	1
2	3
3	6
4	10
5	15
6	21
7	28
8	36
9	45
10	55
11	66
12	78
13	91
14	105
15	120
16	136
17	153
18	171
19	190
20	210
21	231
22	253
23	276
24	300
25	325
26	351
27	378
28	406
29	435
30	465
31	496
32	528
33	561
34	595
35	630
36	666
37	703
38	741
39	780
40	820
41	861
42	903
43	946
44	990
45	1035
46	1081
47	1128
48	1176
49	1225
50	1275
51	1326
52	1378
53	1431
54	1485
55	1540
56	1596
57	1653
58	1711
59	1770
60	1830
61	1891
62	1953
63	2016
64	2080
65	2145
66	2211
67	2278
68	2346
69	2415
70	2485
71	2556
72	2628
73	2701
74	2775
75	2850
76	2926
77	3003
78	3081
79	3160
80	3240
81	3321
82	3403
83	3486
84	3570
85	3655
86	3741
87	3828
88	3916
89	4005
90	4095
91	4186
92	4278
93	4371
94	4465
95	4560
96	4656
97	4753
98	4851
99	4950
100	5050

DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

71890* MERCURY DISSOLVED
(UG/L AS HG)

81

<10.00>

<1.00

2.61

2.77

END OF CORE-HOLE G-S S-8 AQUIFER A METHOD 3 WET SAMPLES REPORTING PERIOD IS 03/29/75 THRU 02/01/77

* -- ESTIMATE USING METHOD OF MOMENTS

NC LCG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

P20JASA-2

CORE-HOLE G-S 1
NUMBER
CF

AQUIFER C METHOD 1

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS
LIMITS ON MEAN THAN OR EQUAL TO VALUE LISTED

STANDARD
DEVIATION

UPPER 25% 50% 75% 90% 95%

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN

C0003# SAMPLE DEPTH, FEET 1 1404.00 1404.00

00011# TEMPERATURE, WATER (DEG. F) 1 60.00 60.00

00915 CALCIUM, DISSOLVED (MG/L AS CA) 1 99999.00 99999.00

00925 MAGNESIUM, DISSOLVED (MG/L AS MG) 1 99999.00 99999.00

00930 SODIUM, DISSOLVED (MG/L AS NA) 1 99999.00 99999.00

00935 POTASSIUM, DISSOLVED (MG/L AS K) 1 0.10 0.10

00955 SILICA, DISSOLVED (MG/L AS SI02) 1 20.00 20.00

01006 ALUMINIUM (UG/L) 1 100.00 100.00

01020 BORON, DISSOLVED (UG/L AS B) 1 100.00 100.00

01040 COPPER, DISSOLVED (UG/L AS CU) 1 10.00 10.00

01046 IRON, DISSOLVED (UG/L AS FE) 1 50.00 50.00

01060 MCLYBDENUM, DISS (UG/L AS MO) 1 1.00 1.00

01090 ZINC, DISSOLVED (UG/L AS ZN) 1 50.00 50.00

01150 TITANIUM, DISSOLVED (UG/L AS TI) 1 10.00 10.00

END OF CORE-HOLE G-S 1 AQUIFER C METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 08/24/74 THRU 08/24/74

* -- ESTIMATE USING METHOD OF MOMENTS
-- NO LOG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

STANDARD
DEVIATION

MEAN
MINIMUM
MAXIMUM

AWIFER C METHOD 1
CORE-HOLE G-S 1
NUMBER
OF
ANALYSES

PARAMETER DESCRIPTION

PARAMETER	DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%
C0003#	SAMPLE DEPTH, FEET	1	1404.00	1404.00				
00011#	TEMPERATURE, WATER (DEG. F)	1	60.00	60.00				
00095	CONDUCTIVITY (UMHOS AT 25 DEG C)	1	3999.99	3999.99				
C0400#	PH (STANDARD UNITS)	1	6.80	6.80				
C0440	BICARBONATE ION (MG/L AS HCO3)	1	715.00	715.00				
00445	CARBONATE ION (MG/L AS CO3)	1	24.00	24.00				
C0540	DISSOLVED SOLIDS (ROE AT 178 DEG C, M)	1	3439.99	3439.99				
C0900	HARDNESS, TOTAL (MG/L AS CaCO3)	1	520.00	520.00				
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1	50.00	50.00				
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1	96.00	96.00				
C0930	SODIUM, DISSOLVED (MG/L AS NA)	1	1050.00	1050.00				
00935	POTASSIUM, DISSOLVED (MG/L AS K)	1	<1.00	<1.00				
C0940	CHLORIDE, DISSOLVED (MG/L AS CL)	1	1130.00	1130.00				
00945	SULFATE, DISSOLVED (MG/L AS SO4)	1	535.00	535.00				
C0950	FLUORIDE, TOTAL (MG/L AS F)	1	1.60	1.60				
00955	SILICA, DISSOLVED (MG/L AS SiO2)	1	25.00	25.00				
01000	ARSENIC, DISSOLVED (UG/L AS AS)	1	<10.00	<10.00				

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

H20QASA-2 CCPE-HOLE G-S 1 AWUIFIER C METHOD 1
NUMBER OF ANALYSES

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

PARAMETER DESCRIPTION

01145 SELENIUM, DISSOLVED
(UG/L AS SE)

71830 HYDROXIDE (MG/L)

71846 NITROGEN, AMMONIA
DISS (MG/L AS NH4)

71851 NITROGEN, NITRATE
DISS (MG/L AS NO3)

71890 MERCURY DISSOLVED
(UG/L AS HG)

25% 50% 75% 90% 95%

UPPER LOWER

MEAN MINIMUM

MAXIMUM

END OF CORE-HOLE G-S 1 WET SAMPLES REPORTING PERIOD IS 08/24/74 THRU 08/24/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "SSSS99.0" ARE "MAJOR" CONCENTRATIONS

SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTED

PARAMETER DESCRIPTION ANALYSES	NUMBER	CF	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%
C0002* SAMPLE DEPTH, FEET	4		602.52	601.64	602.09	0.00	602.09	602.09	602.09	602.09	602.09	602.09	602.09
00011* TEMPERATURE, WATER (DEG. F)	4		64.80	58.00	62.22	3.13	66.58	57.87	60.11	62.22	64.34	66.24	67.38
00915 CALCIUM, DISSOLVED (MG/L AS CA)	3		99999.00	10.00									
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	3		99999.00	2.00									
00930* SODIUM, DISSOLVED (MG/L AS NA)	3		99999.00	5.00	7.07	1.63	31.42	1.59	5.08	7.07	9.84	13.25	15.84
00935* POTASSIUM, DISSOLVED (MG/L AS K)	2		1.00	0.01	0.10	25.95	2009.09	0.00	0.01	0.10	0.90	8.50	21.20
00955* SILICA, DISSOLVED (MG/L AS SI02)	3		5.00	5.00	5.00	1.00	5.01	4.99	4.99	5.00	5.01	5.01	5.01
01006* ALUMINIUM (UG/L)	3		10.00	1.00	4.64	3.78	53.37	0.40	1.89	4.64	11.39	25.52	41.34
01020* BORON, DISSOLVED (UG/L AS B)	3		500.00	200.00	368.40	1.70	973.63	139.40	257.78	368.40	526.50	725.86	879.53
01040* COPPER, DISSOLVED (UG/L AS CU)	3		10.00	1.00	2.15	3.78	24.77	0.19	0.88	2.15	5.28	11.64	19.19
01046* IRON, DISSOLVED (UG/L AS FE)	3		50.00	10.00	21.54	2.24	94.94	4.89	12.49	21.54	37.15	60.65	81.30
01049* LEAD, DISSOLVED (UG/L AS PB)	2		10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01056* MANGANESE, DISSOLVED (UG/L AS MN)	3		10.00	1.00	2.15	3.78	24.77	0.19	0.88	2.15	5.28	11.84	19.19
01060* MOLYBDENUM, DISS (UG/L AS MO)	2		10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05
01075 SILVER, DISSOLVED (UG/L AS AG)	1		1.00	1.00									
01080* STRONTIUM, DISSOLVED (UG/L AS SR)	3		100.00	10.00	46.42	3.78	533.74	4.04	18.92	46.42	113.86	255.17	413.43
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2		10.00	1.00	3.16	5.09	448.23	0.02	1.05	3.16	9.49	25.50	46.05

H2004SA-2

CCKE-HOLE G-S 1
NUMBER OF ANALYSES

AQUIFER L METHOD 3
MAXIMUM
MINIMUM
STANDARD DEVIATION

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE THEORETICAL PROBABILITY OF BEING LESS

LIMITS ON MEAN
UPPER LOWER 25% 50% 75% 90% 95%

01150 TITANIUM, DISSOLVED
(UG/L AS TI) 1 1.00 1.00
09503 RADIUM (UG/L) 1 200.00 200.00

END OF CORE-HOLE G-S 1 AQUIFER L METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 7/17/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				REPORT DATE 03/10/77	PAGE 3
	25%	50%	75%	90%		
00003* SAMPLE DEPTH, FEET	0.00	602.09	602.09	602.09	602.09	602.09
00011* TEMPERATURE, WATER (DEG. F)	3.13	66.58	57.87	60.11	62.22	64.34
00095* CONDUCTIVITY (UMHOS AT 25 DEG C)	1.25	2287.73	1228.10	1440.87	1676.18	1949.90
00340* CHEMICAL OXYGEN DEMAND, .25 N K2CR2O7	1.38	16.82	2.35	5.05	6.28	7.82
00400* PH (STANDARD UNITS)	0.46	7.51	6.24	6.57	6.87	7.18
00410* ALKALINITY, TOTAL (MG/L AS CaCO3)	1.39	1043.50	421.74	532.23	663.39	826.87
00440* BICARBONATE ION (MG/L AS HCO3)	1.34	1189.74	524.13	646.96	789.67	963.85
00445* CARBONATE ION (MG/L AS CO3)	38.81	380.76	0.01	0.20	2.37	28.04
00540* DISSOLVED SOLIDS (BOE AT 178 DEG C, M)	1.26	1446.59	762.41	898.73	1050.19	1227.16
00613* NITROGEN, NITRITE, DISSOLVED (MG/L AS N)	6.79	26.27	0.00	0.02	0.08	0.28
00681* CARBON, ORGANIC, DISS (MG/L AS C)	1.19	9.50	5.96	6.73	7.54	8.46
00720* CYANIDE (MG/L AS CN)	1.00					
00746* SULFIDE, DISSOLVED (MG/L AS S)	1.00					
00900* HARDNESS, TOTAL (MG/L AS CaCO3)	1.24	313.34	140.54	181.10	209.85	243.15
00915* CALCIUM, DISSOLVED (MG/L AS Ca)	1.45	51.32	18.40	23.95	30.73	39.44
00925* MAGNESIUM, DISSOLVED (MG/L AS Mg)	1.19	44.29	27.46	31.04	34.87	39.17
00930* SODIUM, DISSOLVED (MG/L AS Na)	1.60	575.82	155.90	218.07	299.62	411.66

CCKE-POLE G-S 1		AQUIFER L METHOD - 3		WET SAMPLES		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				PAGE		
NUMBER OF ANALYSES		MAXIMUM		MINIMUM		95% CONFIDENCE LIMITS ON MEAN		25% 50% 75% 90% 95%				33
PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	UPPER	LOWER	25%	50%	75%	90%	95%
G0935* POTASSIUM, DISSOLVED (MG/L AS K)	2	1.30	1.00	1.14	1.20	2.01	0.65	1.01	1.14	1.29	1.45	1.55
G0940* CHLORIDE, DISSOLVED (MG/L AS CL)	4	41.00	6.90	22.78	2.25	70.25	7.39	13.17	22.78	39.39	64.46	86.54
G0945* SULFATE, DISSOLVED (MG/L AS SO4)	4	220.00	120.00	163.13	1.31	236.21	112.66	136.25	163.13	195.31	229.63	252.99
G0950* FLUORIDE, TOTAL (MG/L AS F)	4	22.00	3.10	9.42	2.45	32.69	2.72	5.15	9.42	17.25	29.73	41.16
G0955* SILICA, DISSOLVED (MG/L AS SiO2)	4	22.00	16.00	17.84	1.16	21.98	14.49	16.12	17.84	19.75	21.63	22.85
G1000* ARSENIC, DISSOLVED (UG/L AS AS)	4	<10.00	<10.00	<10.00	1.00							
G1005* BARIUM, DISSOLVED (UG/L AS BA)	2	<1000.00	<1000.00	<1000.00	1.00							
G1020* BORON, DISSOLVED (UG/L AS B)	4	2399.99	<100.00	542.16	4.14	3893.12	75.50	207.85	542.16	1414.14	3343.98	5608.23
G1025* CADMIUM, DISSOLVED (UG/L AS CD)	4	<10.00	<10.00	<10.00	1.00							
G1030* CHROMIUM, DISSOLVED (UG/L AS CR)	4	30.00	10.00	13.16	1.73	28.21	6.14	9.08	13.16	19.07	26.61	32.49
G1040* COPPER, DISSOLVED (UG/L AS CU)	4	<100.00	<100.00	<100.00	1.00							
G1046* IRON, DISSOLVED (UG/L AS FE)	4	1400.00	<50.00	325.31	4.45	2582.44	40.98	118.78	325.31	890.94	2204.54	3789.85
G1049* LEAD, DISSOLVED (UG/L AS PB)	4	400.00	<10.00	77.46	4.59	642.90	9.33	27.68	77.46	216.78	540.96	951.31
G1056* MANGANESE, DISSOLVED (UG/L AS MN)	4	60.00	<50.00	52.32	1.10	59.39	46.11	49.21	52.33	55.65	58.82	60.80
G1060* MOLYBDENUM, DISS (UG/L AS MO)	1	<100.00	<100.00									
G1065* NICKEL, DISSOLVED (UG/L AS NI)	2	40.00	<10.00	20.00	2.67	384.79	1.01	10.32	20.00	38.76	70.28	100.31
G1075* SILVER, DISSOLVED (UG/L AS AG)	2	<10.00	<10.00	<10.00	1.00							

H20QASA-2

CORE-HOLE G-S 1
NUMBER
CF

AQUIFER L METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

01080 STRONTIUM, DISSOLVED
(UG/L AS SR)

1 3499.99 3499.99

01090* ZINC, DISSOLVED
(UG/L AS ZN)

4 200.00 <100.00

01106 ALUMINUM, DISSOLVED
(UG/L AS AL)

1 300.00 300.00

01130* LITHIUM, DISSOLVED
(UG/L AS LI)

2 <100.00 <100.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

4 <10.00 <10.00

01503* GROSS ALPHA,
DISSOLVED (PC/L)

2 8.70 3.30

03501 GROSS BETA,
DISSOLVED (PC/L)

1 53.00 53.00

32730* PHENOLS (UG/L)

2 <1.00 <1.00

70507* PHOSPHORUS, TOTAL
ORTHO (MG/L AS P)

4 <0.10 <0.10

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

4 0.90 0.60

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3 0.50 <0.10

71870* BROMIDE (MG/L)

2 <0.10 <0.02

71890* MERCURY DISSOLVED
(UG/L AS HG)

4 <2.00 <1.00

END OF CORE-HOLE G-S 1 AQUIFER L METHOD 3 WET SAMPLES REPORTING PERIOD IS 7/17/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LCG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

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CCRE-HOLE G-S-1

AQUIFER L METHOD 3A

NUMBER

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

90%

75%

50%

25%

LOWER

UPPER

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

5

603.70

589.49

599.75

5.80

606.42

595.83

599.75

5.80

589.49

603.70

5

00011# TEMPERATURE, WATER
(DEG. F)

5

60.80

57.60

59.54

1.34

61.09

58.63

59.54

1.34

57.60

60.80

5

00915 CALCIUM, DISSOLVED
(MG/L AS CA)

5

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

5

00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)

5

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

999999.00

5

00930# SODIUM, DISSOLVED
(MG/L AS NA)

5

999999.00

2.00

5.62

2.14

16.21

1.95

5.62

2.00

999999.00

999999.00

5

00935# POTASSIUM, DISSOLVED
(MG/L AS K)

5

1.00

0.10

0.55

2.71

0.17

0.55

0.10

1.00

1.00

5

00955# SILICA, DISSOLVED
(MG/L AS SI02)

5

10.00

2.00

3.98

1.99

8.79

1.80

3.98

2.00

10.00

10.00

5

01005 BARIUM, DISSOLVED
(UG/L AS BA)

1

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1

01006# ALUMINIUM (UG/L)

5

100.00

20.00

72.48

2.05

165.81

31.68

72.48

20.00

100.00

100.00

5

01020# BORON, DISSOLVED
(UG/L AS B)

5

1000.00

100.00

416.28

2.34

1108.54

156.32

416.28

100.00

1000.00

100.00

5

01040# COPPER, DISSOLVED
(UG/L AS CU)

5

10.00

1.00

2.19

3.00

7.74

0.62

2.19

1.00

10.00

10.00

5

01046# IRON, DISSOLVED
(UG/L AS FE)

5

200.00

10.00

38.07

3.51

161.18

8.99

38.07

10.00

200.00

10.00

5

01049 LEAD, DISSOLVED
(UG/L AS PB)

1

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

10.00

1

01056# MANGANESE, DISSOLVED
(UG/L AS MN)

4

5.00

1.00

1.50

2.24

4.57

0.49

1.50

1.00

5.00

1.00

4

01060# MOLYBDENUM, DISS
(UG/L AS MO)

3

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

3

01075 SILVER, DISSOLVED
(UG/L AS AG)

1

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1

01090# STRONTIUM, DISSOLVED
(UG/L AS SR)

5

100.00

100.00

100.00

100.00

100.00

100.00

100.00

100.00

100.00

100.00

5

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CCPE-HOLE G-S-1

AQUIFER 1

METHOD 3A

NUMBER

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

5 603.70 589.49 599.75 5.80 606.42 593.08 595.83 599.75 603.66 607.18 609.29

00011# TEMPERATURE, WATER
(DEG. F)

5 60.80 57.60 59.54 1.34 61.03 57.99 58.63 59.54 60.45 61.26 61.75

00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

5 980.00 795.00 902.61 1.09 991.53 821.66 854.16 902.61 953.79 1002.30 1032.48

00400# PH (STANDARD UNITS)

5 6.90 6.20 6.60 0.29 6.94 6.26 6.40 6.60 6.80 6.97 7.08

00410# ALKALINITY, TOTAL
(MG/L AS CaCO3)

5 334.80 194.00 286.96 1.25 371.95 221.39 246.42 286.96 334.17 383.22 415.92

00440# BICARBONATE ION
(MG/L AS HCO3)

5 400.00 170.00 305.92 1.41 454.69 205.83 242.43 305.92 386.05 475.89 559.31

00445# CARBONATE ION (MG/L
AS CO3)

5 66.00 12.00 31.91 2.02 71.50 14.23 19.86 31.91 51.26 78.52 101.33

00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

5 670.00 520.00 603.92 1.10 672.47 542.35 566.98 603.92 643.27 690.84 704.35

00681# CARBON, ORGANIC,
DISS (MG/L AS C)

4 7.00 2.00 3.35 1.69 6.90 1.61 2.35 3.35 4.78 6.59 7.97

00720# CYANIDE (MG/L AS CN)

5 <0.01 <0.01 <0.01 1.00

00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

5 270.00 230.00 240.51 1.07 260.63 221.95 229.44 240.51 252.12 263.04 269.80

00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

5 84.00 17.00 35.25 1.79 68.77 18.07 23.81 35.25 52.19 74.27 91.71

00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

5 46.00 15.00 32.06 1.55 53.07 19.37 23.85 32.06 43.10 56.24 65.94

00930# SODIUM, DISSOLVED
(MG/L AS Na)

5 160.00 95.00 137.75 1.23 175.50 108.11 119.49 137.75 158.80 180.46 194.80

00940# CHLORIDE, DISSOLVED
(MG/L AS Cl)

5 14.00 <1.00 5.85 2.80 19.10 1.79 2.92 5.85 11.72 21.88 31.79

00945# SULFATE, DISSOLVED
(MG/L AS SO4)

5 180.00 155.00 164.79 1.06 175.63 154.62 158.74 164.79 171.07 176.92 180.52

00950# FLUORIDE, TOTAL
(MG/L AS F)

5 1.40 0.90 1.05 1.19 1.33 0.89 0.96 1.09 1.22 1.36 1.45

H2004SA-2

CORE-HOLE G-S 1
NUMBER
OF
ANALYSES

AQUIFER L METHOD 3A

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

80%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERSTANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00955* SILICA, DISSOLVED
(MG/L AS SiO2)

5

22.00

19.00

20.17

1.07

21.71

18.74

19.31

20.17

21.06

21.89

22.40

01000* ARSENIC, DISSOLVED
(UG/L AS AS)

5

<10.00

<10.00

<10.00

1.00

01005* BARIUM, DISSOLVED
(UG/L AS BA)

5

<1000.00

<1000.00

<1000.00

1.00

01020* BORON, DISSOLVED
(UG/L AS B)

5

2300.00

20.00

260.34

6.89

2395.53

28.29

70.75

260.34

958.06

3091.98

6230.70

01025* CADMIUM, DISSOLVED
(UG/L AS CD)

5

<10.00

<10.00

<10.00

1.00

01030* CHROMIUM, DISSOLVED
(UG/L AS CR)

5

<10.00

<10.00

<10.00

1.00

01040* COPPER, DISSOLVED
(UG/L AS CU)

5

<100.00

<10.00

<39.81

3.53

01046* IRON, DISSOLVED
(UG/L AS FE)

5

5699.97

650.00

1678.86

2.65

5153.32

546.94

869.10

1678.86

3243.08

5262.68

8353.55

01048* LEAD, DISSOLVED
(UG/L AS PB)

5

140.00

50.00

84.90

1.47

132.41

54.43

65.40

84.90

110.21

159.36

160.35

01056* MANGANESE, DISSOLVED
(UG/L AS MN)

5

220.00

<50.00

74.60

1.86

152.29

36.54

49.06

74.60

113.42

165.32

267.10

01065* NICKEL, DISSOLVED
(UG/L AS NI)

5

20.00

10.00

13.20

1.46

20.42

8.53

10.21

13.20

17.05

21.47

24.64

01075* SILVER, DISSOLVED
(UG/L AS AG)

5

110.00

<10.00

20.12

2.89

68.24

5.93

9.83

20.12

41.21

78.53

115.46

01090* ZINC, DISSOLVED
(UG/L AS ZN)

5

700.00

10.00

199.90

5.70

1479.20

27.01

61.73

199.90

647.31

1862.13

3502.99

01106 ALUMINUM, DISSOLVED
(UG/L AS AL)

1

<100.00

<100.00

<10.00

1.00

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

5

<10.00

<10.00

<10.00

1.00

01503* GROSS ALPHA,
DISSOLVED (PC/L)

3

4.00

1.50

2.43

1.63

5.00

0.99

1.75

2.43

3.39

4.56

5.45

70507* PHOSPHORUS, TOTAL
CRTHO (MG/L AS P)

5

<0.10

<0.10

<0.10

1.00

H20JASA-2

CORE-HOLE G-S 1
AQUIFER L METHOD 3A
NUMBER OF ANALYSES

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM
MEAN STANDARD DEVIATION

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWER

THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%

71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	4	0.40	0.25	0.36	1.26	0.49	0.26	0.30	0.36	0.42	0.48	0.52
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	5	1.00	<0.10	0.44	2.46	1.23	0.16	0.24	0.44	0.80	1.39	1.93
71890*	MERCURY DISSOLVED (UG/L AS HG)	5	<10.00	<2.00	<7.25	2.05							

END OF CORE-HOLE G-S 1 AQUIFER L METHOD 3A WET SAMPLES REPORTING PERIOD IS 03/31/75 THRU 07/17/75

--- ESTIMATE USING METHOD OF MOMENTS
--- NC LCG TRANSFORM
VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20QASA-2

CORE-HOLE G-S 1
NUMBER OF

AQUIFER U METHOD 1

REPORT DATE 03/10/77

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
THAN OR EQUAL TO VALUE LISTEDSTANDARD
DEVIATION

95%

90%

75%

50%

25%

LOWER

UPPER

MEAN

MAXIMUM

MINIMUM

ANALYSES

PARAMETER DESCRIPTION

00003# SAMPLE DEPTH, FEET

00011# TEMPERATURE, WATER
(DEG. F)00915 CALCIUM, DISSOLVED
(MG/L AS CA)00925 MAGNESIUM, DISSOLVED
(MG/L AS MG)00930 SODIUM, DISSOLVED
(MG/L AS NA)00935# POTASSIUM, DISSOLVED
(MG/L AS K)00955# SILICA, DISSOLVED
(MG/L AS SIO2)

01006# ALUMINIUM (UG/L)

01020# BORON, DISSOLVED
(UG/L AS B)01030# CHROMIUM, DISSOLVED
(UG/L AS CR)01040# COPPER, DISSOLVED
(UG/L AS CU)01046# IRON, DISSOLVED
(UG/L AS FE)01056# MANGANESE, DISSOLVED
(UG/L AS MN)01060# MOLYBDENUM, DISS
(UG/L AS MO)01090# STRONTIUM, DISSOLVED
(UG/L AS SR)01000# ZINC, DISSOLVED
(UG/L AS ZN)01150# TITANIUM, DISSOLVED
(UG/L AS TI)

3 475.00 383.00 433.33 46.61 518.96 347.71 401.37 433.33 464.79 493.08 510.00

3 42.44 41.72 42.02 0.37 42.71 41.33 41.77 42.02 42.27 42.50 42.63

3 99999.00 99999.00 42.02 0.37 42.71 41.33 41.77 42.02 42.27 42.50 42.63

3 99999.00 99999.00 42.02 0.37 42.71 41.33 41.77 42.02 42.27 42.50 42.63

3 99999.00 99999.00 42.02 0.37 42.71 41.33 41.77 42.02 42.27 42.50 42.63

3 0.10 0.10 0.10 1.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10

3 30.00 25.00 28.23 1.11 34.25 23.27 26.29 28.23 30.31 32.31 33.57

3 500.00 100.00 292.40 2.53 1611.92 53.04 156.17 292.40 547.49 952.33 1348.38

3 100.00 50.00 79.37 1.49 165.56 38.05 60.58 79.37 103.99 152.58 153.31

3 10.00 10.00 10.00 1.00 10.04 9.96 9.98 10.00 10.02 10.03 10.04

3 10.00 10.00 10.00 1.00 10.04 9.96 9.98 10.00 10.02 10.03 10.04

3 100.00 50.00 79.37 1.49 165.56 38.05 60.58 79.37 103.99 152.58 153.31

3 50.00 20.00 36.84 1.70 97.36 13.94 25.78 36.84 52.65 72.59 87.96

2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

2 100.00 100.00 100.00 1.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

2 10.00 10.00 10.00 1.00 10.07 9.93 9.98 10.00 10.02 10.03 10.04

END OF CORE-HOLE G-S 1 AQUIFER U METHOD 1 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 08/17/74 THRU 08/18/74

H20CASA-2

COPE-HOLE G-S 1

AQUIFER U METHOD 1

NUMBER
OF

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM

STANDARD
DEVIATION

MEAN

SPECTROGRAPHIC SAMPLES

95% CONFIDENCE

THEORETICAL PROBABILITY OF BEING LESS

THAN OR EQUAL TO VALUE LISTED

UPPER LOWER 25% 50% 75% 90% 95%

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* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2

CCRE-HOLE G-S 1

AQUIFER U METHOD 1

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NUMBER
OF

PARAMETER DESCRIPTION ANALYSES

MAXIMUM

MINIMUM

MEAN

STANDARD
DEVIATIONWET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

01145* SELENIUM, DISSOLVED
(UG/L AS SE)

3

<10.00

<10.00

1.00

37.07

0.02

0.91

3.54

12.07

25.14

71830* HYDROXIDE (MG/L)

3

<0.10

<0.10

1.00

71846* NITROGEN, AMMONIA
DISS (MG/L AS NH4)

3

5.30

<0.10

7.54

37.07

0.02

0.91

3.54

12.07

25.14

71851* NITROGEN, NITRATE
DISS (MG/L AS NO3)

3

<0.10

<0.10

1.00

71890* MERCURY DISSOLVED
(UG/L AS +G)

3

<10.00

<10.00

1.00

H20QASA-2 CORE-HOLE G-S 1 AQUIFER U METHOD 1 REPORT DATE 03/10/77 PAGE 346

PARAMETER DESCRIPTION ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	WET SAMPLES		THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED				
					UPPER	LOWER	25%	50%	75%	90%	95%

END OF CORE-HOLE G-S 1 AQUIFER U METHOD 1 WET SAMPLES REPORTING PERIOD IS 08/17/74 THRU 08/18/74

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

H200ASA-2

CCRE-HOLE G-S 1
NUMBER
CF

AQUIFER U METHOD 3

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SPECTROGRAPHIC SAMPLES
95% CONFIDENCE
LIMITS ON MEAN
UPPER LOWERTHEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED
25% 50% 75% 90% 95%STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

C0003# SAMPLE DEPTH, FEET

S 246.30 243.92 245.57 0.85 246.21 244.93 245.57 246.14 246.66 246.97

C0011# TEMPERATURE, WATER
(DEG. F)

S 56.80 51.80 54.16 1.76 55.48 52.83 52.97 54.16 55.34 56.41 57.05

C0015 CALCIUM, DISSOLVED
(MG/L AS CA)

8 99999.00 10.00

C0025 MAGNESIUM, DISSOLVED
(MG/L AS MG)

8 99999.00 10.00

C0030# SODIUM, DISSOLVED
(MG/L AS NA)

8 99999.00 2.00 4.64 2.06 9.25 2.26 2.85 4.64 7.56 11.71 15.22

C0035# POTASSIUM, DISSOLVED
(MG/L AS K)

8 1.00 0.01 0.15 4.22 0.48 0.05 0.06 0.15 0.39 0.95 1.59

C0055# SILICA, DISSOLVED
(MG/L AS SiO2)

8 20.00 2.00 4.60 2.30 9.07 2.33 2.62 4.60 8.07 13.39 18.12

C1005 BARIUM, DISSOLVED
(UG/L AS BA)

1 1.00 1.00

C1006# ALUMINIUM (UG/L)

8 500.00 10.00 47.29 5.86 200.00 11.18 14.33 47.29 156.05 456.62 857.76

C1020# BORON, DISSOLVED
(UG/L AS B)

8 500.00 100.00 258.60 1.81 419.76 159.31 173.16 258.60 386.19 553.90 687.23

C1040# COPPER, DISSOLVED
(UG/L AS CU)

8 10.00 1.00 2.17 2.98 5.30 0.89 1.04 2.17 4.55 8.83 13.13

C1046# IRON, DISSOLVED
(UG/L AS FE)

8 1000.00 10.00 50.15 5.75 208.81 12.04 15.39 50.15 163.36 472.48 891.68

C1049# LEAD, DISSOLVED
(UG/L AS PB)

3 200.00 10.00 46.42 4.48 729.20 2.95 16.87 46.42 127.69 317.25 546.70

C1056# MANGANESE, DISSOLVED
(UG/L AS MN)

6 100.00 1.00 4.14 6.32 26.10 0.66 1.19 4.14 14.36 43.99 85.93

C1060# MOLYBDENUM, DISS
(UG/L AS MO)

4 20.00 1.00 3.76 4.74 32.57 0.43 1.32 3.76 10.75 27.62 48.58

C1080# STRONTIUM, DISSOLVED
(UG/L AS SR)

8 100.00 100.00 100.00 1.01 100.48 99.52 99.60 100.00 100.40 100.76 100.97

C1090# ZINC, DISSOLVED
(UG/L AS ZN)

3 100.00 1.00 4.64 14.28 613.76 0.04 0.77 4.64 27.93 140.28 368.25

H20QASA-2

CORE-HOLE G-S-1

AWIIFER U METHOD
3

REPORT DATE 03/10/77

PAGE

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PARAMETER DESCRIPTION	ANALYSES	MAXIMUM	MINIMUM	MEAN	STANDARD DEVIATION	95% CONFIDENCE LIMITS ON MEAN	THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED
						UPPER	LOWER
01130* LITHIUM, DISSOLVED (UG/L AS LI)	2	1.00	1.00	1.00	1.00	1.00	1.00
01150* TITANIUM, DISSOLVED (UG/L AS TI)	5	10.00	1.00	5.49	2.71	17.31	1.74
09503* RADIUM (UG/L)	3	800.00	200.00	317.48	2.23	1381.33	72.97

95%

90%

75%

50%

25%

SPECTROGRAPHIC SAMPLES

THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED

UPPER

LOWER

01130* LITHIUM, DISSOLVED (UG/L AS LI)

2

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

01150* TITANIUM, DISSOLVED (UG/L AS TI)

5

10.00

1.00

5.49

2.71

17.31

1.74

2.80

5.49

10.78

19.76

28.38

09503* RADIUM (UG/L)

3

800.00

200.00

317.48

2.23

1381.33

72.97

184.96

317.48

544.93

895.80

1184.44

END OF CORE-HOLE G-S-1 AWIIFER U METHOD 3 SPECTROGRAPHIC SAMPLES REPORTING PERIOD IS 7/17/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NO LOG TRANSFORM

VALUES OF "99999.0" ARE "MAJOR" CONCENTRATIONS

H20CASA-2

COPE-HOLE G-S 1
NUMBER
CF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION
 WET SAMPLES
 95% CONFIDENCE
 LIMITS ON MEAN
 UPPER LOWER
 THEORETICAL PROBABILITY OF BEING LESS
 THAN OR EQUAL TO VALUE LISTED
 25% 50% 75% 90% 95%

00003# SAMPLE DEPTH, FEET

9	246.30	243.92	245.57	0.86	246.21	244.92	244.99	245.57	246.15	246.67	246.98
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00011# TEMPERATURE, WATER
(DEG. F)

9	56.80	51.80	54.16	1.76	55.48	52.83	52.97	54.16	55.34	56.41	57.05
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00095# CONDUCTIVITY (UMHOS
AT 25 DEG C)

9	1650.00	840.00	1226.95	1.20	1409.75	1067.86	1083.51	1226.95	1389.38	1553.73	1661.16
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00340# CHEMICAL OXYGEN
DEMAND, .25 N K2CRO7

2	33.00	12.80	20.55	1.95	157.68	2.68	13.08	20.55	32.30	42.50	61.84
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00400# PH (STANDARD UNITS)

9	7.00	6.40	6.62	0.23	6.80	6.45	6.46	6.62	6.78	6.92	7.01
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00410# ALKALINITY, TOTAL
(MG/L AS CaCO3)

9	410.00	310.00	374.31	1.09	398.77	351.35	353.69	374.31	396.13	416.84	429.74
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00440# BICARBONATE ION
(MG/L AS HCO3)

9	500.00	380.00	448.85	1.10	481.70	418.25	421.35	448.85	478.15	506.12	523.62
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00445# CARBONATE ION (MG/L
AS CO3)

9	54.00	<0.10	0.36	12.77	2.44	0.05	0.06	0.36	2.00	9.38	23.65
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00540# DISSOLVED SOLIDS
(ROE AT 178 DEG C, M)

9	970.00	665.00	844.86	1.13	928.43	768.85	776.49	844.88	919.30	991.80	1037.87
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00608 NITROGEN, AMYCNIA,
DISSOLVED(MG/L AS N)

1	0.80	0.80									
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00613# NITROGEN, NITRITE,
DISSOLVED(MG/L AS N)

2	0.30	<0.02	0.08	6.79	26.27	0.00	0.02	0.08	0.28	0.90	1.81
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00681# CARBON, ORGANIC,
DISS (MG/L AS C)

6	22.00	1.60	7.06	2.21	13.47	3.70	4.14	7.06	12.06	19.50	25.99
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00720# CYANIDE (MG/L AS CN)

9	<0.01	<0.01	<0.01	1.00							
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00746# SULFIDE, DISSOLVED
(MG/L AS S)

2	<0.10	<0.10	<0.10	1.00							
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00900# HARDNESS, TOTAL
(MG/L AS CaCO3)

6	540.00	310.00	394.91	1.21	460.73	338.49	347.59	394.91	448.67	503.24	539.00
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00915# CALCIUM, DISSOLVED
(MG/L AS Ca)

9	140.00	35.00	70.13	1.71	104.90	46.88	48.90	70.13	100.57	129.07	168.83
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00925# MAGNESIUM, DISSOLVED
(MG/L AS Mg)

9	62.00	38.00	51.20	1.16	57.15	45.86	46.40	51.20	56.49	61.72	65.08
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H2CQASA-2

CORE-HOLE G-S-1
NUMBER
CF

AQUIFER U METHOD 3

REPORT DATE 03/10/77

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THEORETICAL PROBABILITY OF BEING LESS
THAN OR EQUAL TO VALUE LISTED

95%

90%

75%

50%

25%

WET SAMPLES
95% CONFIDENCE
LIMITS ON MEAN

UPPER LOWER

STANDARD
DEVIATION

MEAN

MINIMUM

MAXIMUM

ANALYSES

PARAMETER DESCRIPTION

00930*	SODIUM, DISSOLVED (MG/L AS NA)	9	220.00	92.00	144.35	1.38	183.54	113.52	116.42	144.35	178.98	217.16	243.78
00935*	POTASSIUM, DISSOLVED (MG/L AS K)	2	1.60	1.50	1.55	1.05	1.78	1.35	1.50	1.55	1.60	1.64	1.67
00940*	CHLORIDE, DISSOLVED (MG/L AS CL)	9	28.00	<0.10	6.17	5.42	22.07	1.72	1.97	6.17	19.31	53.88	99.53
00945*	SULFATE, DISSOLVED (MG/L AS SO4)	9	350.00	210.00	279.85	1.18	317.78	246.46	249.76	279.85	313.57	347.35	369.26
00950*	FLUORIDE, TOTAL (MG/L AS F)	9	0.30	0.20	0.23	1.22	0.27	0.20	0.20	0.23	0.26	0.30	0.32
00955*	SILICA, DISSOLVED (MG/L AS SiO2)	9	46.00	20.00	32.84	1.28	39.45	27.33	27.86	32.84	38.70	44.87	49.01
01000*	ARSENIC, DISSOLVED (UG/L AS AS)	9	<10.00	<10.00	<10.00	1.00							
01005*	BARIUM, DISSOLVED (UG/L AS BA)	7	<1000.00	<100.00	<719.68	2.39							
01020*	BORON, DISSOLVED (UG/L AS B)	9	3199.99	100.00	259.71	3.10	609.70	110.63	120.98	259.71	557.55	1108.28	1671.39
01025*	CADMIUM, DISSOLVED (UG/L AS CD)	9	100.00	<10.00	13.95	2.17	24.99	7.79	8.28	13.95	23.51	37.60	49.78
01030*	CHROMIUM, DISSOLVED (UG/L AS CR)	9	30.00	<10.00	11.30	1.44	14.89	8.57	8.82	11.30	14.47	18.07	20.64
01040*	COPPER, DISSOLVED (UG/L AS CU)	9	<100.00	<10.00	<59.95	2.76							
01046*	IRON, DISSOLVED (UG/L AS FE)	9	8599.97	<50.00	2091.03	6.79	8863.53	493.30	573.89	2091.03	7618.82	24300.55	48845.48
01049*	LEAD, DISSOLVED (UG/L AS PB)	9	300.00	<10.00	66.13	3.39	166.08	26.33	29.00	66.13	150.80	316.48	493.03
01056*	MANGANESE, DISSOLVED (UG/L AS MN)	9	300.00	<50.00	118.45	1.88	190.31	73.72	77.48	118.45	181.08	265.25	333.27
01060	MOLYBDENUM, DISS (UG/L AS MO)	1	100.00	100.00									
01065*	NICKEL, DISSOLVED (UG/L AS NI)	7	30.00	10.00	15.75	1.57	23.51	10.55	11.64	15.75	21.31	27.97	32.91

H200ASA-2 CORE-HOLE G-S 1 ACQUFER U METHOD 3 REPORT DATE 03/10/77 PAGE 351

PARAMETER DESCRIPTION ANALYSES MAXIMUM MINIMUM MEAN STANDARD DEVIATION WET SAMPLES 95% CONFIDENCE LIMITS ON MEAN UPPER LOWER THEORETICAL PROBABILITY OF BEING LESS THAN OR EQUAL TO VALUE LISTED 25% 50% 75% 90% 95%

01075*	SILVER, DISSOLVED (UG/L AS AG)	7	100.00	<10.00	13.89	2.39	30.25	6.38	7.72	13.89	25.00	42.40	58.16
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	1	2300.00	2300.00									
01090*	ZINC, DISSOLVED (UG/L AS ZN)	9	3599.99	<10.00	154.08	4.70	494.69	47.99	54.23	154.08	437.78	1119.61	1963.14
01106*	ALUMINUM, DISSOLVED (UG/L AS AL)	2	<100.00	<100.00	<100.00	1.00							
01130*	LITHIUM, DISSOLVED (UG/L AS LI)	2	<100.00	<100.00	<100.00	1.00							
01145*	SELENIUM, DISSOLVED (UG/L AS SE)	9	<10.00	<10.00	<10.00	1.00							
01503*	GROSS ALPHA, DISSOLVED (PC/L)	6	10.00	2.70	5.08	1.70	8.65	2.98	3.54	5.08	7.27	10.05	12.20
32730*	PHENOLS (UG/L)	2	<1.00	<1.00	<1.00	1.00							
70507*	PHOSPHORUS, TOTAL ORTHO (MG/L AS P)	9	<0.10	<0.10	<0.10	1.00							
71846*	NITROGEN, AMMONIA DISS (MG/L AS NH4)	7	0.55	0.20	0.24	1.47	0.35	0.17	0.19	0.24	0.32	0.40	0.46
71851*	NITROGEN, NITRATE DISS (MG/L AS NO3)	8	1.00	<0.10	0.23	2.27	0.44	0.12	0.13	0.23	0.40	0.65	0.88
71870*	PRCIDE (MG/L)	2	0.50	<0.10	0.22	3.12	7.13	0.01	0.10	0.22	0.48	0.96	1.45
71890*	MERCURY DISSOLVED (UG/L AS HG)	9	<10.00	<1.00	<3.51	2.80							

END OF CORE-HOLE G-S 1 ACQUFER U METHOD 3 WET SAMPLES REPORTING PERIOD IS 7/17/75 THRU 11/14/76

* -- ESTIMATE USING METHOD OF MOMENTS

-- NC LCG TRANSFORM VALUES OF "9999.0" ARE "MAJOR" CONCENTRATIONS

Form 1279-3
(June 1984)

BORROWER

TN 859 .C64 R56
Progress report
C-3 oil shale da

DATE LOANED	BORROWER

USDI - BLM

